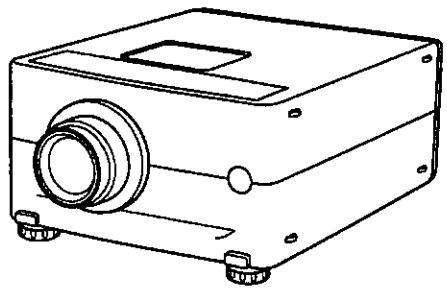
SHARP

SERVICE MANUAL
SERVICE-ANLEITUNG
维修手册

SY9T1XGNV21SE



LCD PROJECTOR
LCD PROJEKTOR
液晶投影机

MODELS
MODELLE
型号

XG-NV21SE
XG-NV21SM
XG-NV21SA

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzersicherheit (erforderliche Sicherheitsregeln in einigen Ländern) muß das Gerät in seinen Originalzustand gebracht werden. Außerdem dürfen für die spezifizierten Bauteile nur identische Teile verwendet werden.

为了用户安全起见（根据一些国家的安全规程的需要），应将液晶投影机保持于最初的状态，而且只能使用与指定物相同的部件。

SHARP CORPORATION

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NOTE TO SERVICE PERSONNEL

UV-RADIATION PRECAUTION

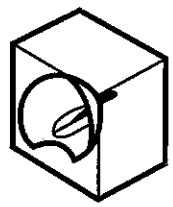
The light source, metal halide lamp, in the LCD projector emits small amounts of UV-Radiation.

AVOID DIRECT EYE AND SKIN EXPOSURE.

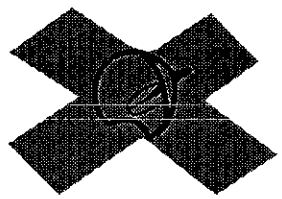
To ensure safety please adhere to the following:

1. Be sure to wear sun-glasses when servicing the projector with the lamp turned "on" and the top enclosure removed.

2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type CLMPF0056CE01 or BQC-XGNV6XE/1 rated 65V/ 150W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

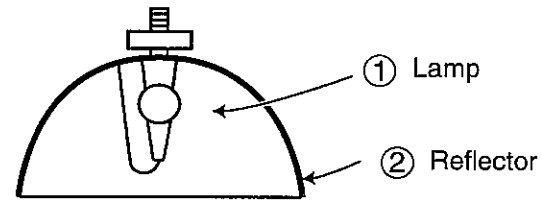
■ Lamp Replacement

Note:

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.)

Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.

[Use original replacement only.]



DANGER ! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Since small amounts of UV-Radiation are emitted from an opening between the duct cover and the lamp housing, it is recommended to place the LENS CAP on the opening during servicing to avoid eye and skin exposurem (Fig. 1).

Note: Please obtain a lens cap before servicing a models XG-NV21SE/SM/SA that is received without one.

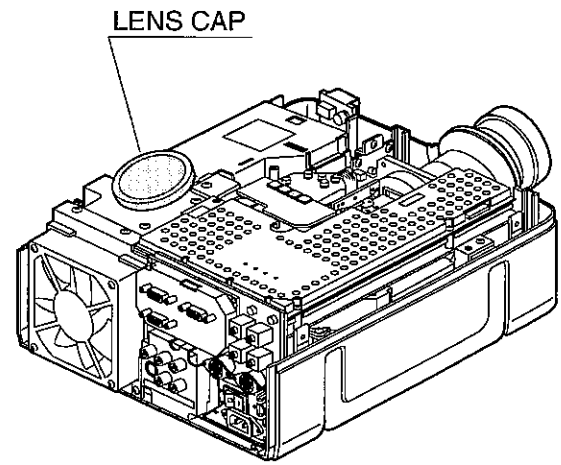


Figure 1.

Specifications

Product Type	LCD Projector
Model	XG-NV21SE/SM/SA
Video system	PAL/SECAM/NTSC 3.58/NTSC 4.43
Display method	LCD panel × 3, RGB optical shutter method
LCD panel	Panel size: 33.0 mm (1.3") (19.8 [H] × 26.4 [W] mm) Display method: Translucent TN liquid crystal panel Drive method: TFT (Thin Film Transistor) Active Matrix panel No. of dots: 485,616 dots (804 [H] × 604 [V])
Lens	1–1.6 zoom lens, F2.5 to 3.6, f = 47 to 76 mm
Projection lamp	150 W UHP lamp
Contrast ratio	200:1
Video input signal	RCA Connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated RCA Connector: AUDIO, 0.5 Vrms more than 22 kΩ (stereo)
S-video input signal	4-pin mini DIN connector Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated
Horizontal resolution	580 TV lines (video input)
Audio output	2 W + 2 W (stereo)
Computer RGB input signal	*Video signal* 15-PIN MINI D-SUB CONNECTOR (RGB 1, 2): RGB separate type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated STEREO MINIJACK: AUDIO, 0.5 Vrms, more than 22 kΩ (stereo) HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative) or composite sync (Apple only) VERTICAL SYNC. SIGNAL: Same as above

Computer Control Cable (Supplied)	
RS-232C input terminal	9-pin D-sub male connector for controlling personal computer
Mouse input terminal (for IBM/Mac)	9-pin D-sub female connector for wireless mouse
Mouse input terminal (for PC98)	9-pin mini DIN connector for wireless mouse

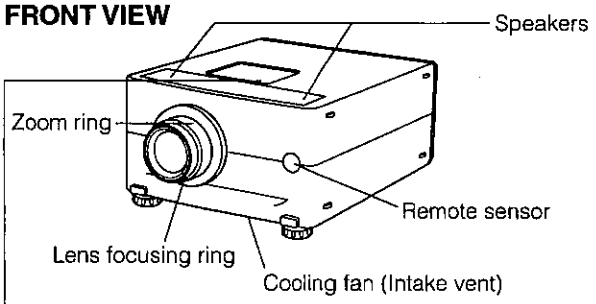
Speaker system	7 × 4 cm (2.8" × 1.6") oval × 2
Rated voltage	AC 110–120/200–240 V
Rated frequency	50/60 Hz
Power consumption	250 W
Operating temperature	+5°C to +40°C
Storage temperature	−20°C to +60°C
Cabinet	Plastic
I/R Carrier frequency	40 kHz
Laser Pointer of Remote Control	*Wave length* 670 nm *Max. output* 1 mW Class II Laser Product
Dimensions (W × D × H)	261 × 329 × 155 mm (not including lens)
Weight	6.6 kg
Supplied accessories	Remote control unit, Four AA batteries, Extra air filter, RGB signal cable (3 m), Computer control cable (1 m), Mouse control cable for IBM PS/2 (15 cm), Mouse control cable for Mac (15 cm), Mouse control cable (3 m), Computer audio cable, AC cord, Lens cap (installed)
Replacement parts	Remote control (RRMCG1415CESA:XG-NV21SE/SM), (RRMCG1437CESA:XG-NV21SA), Air filter (PFILD0080CEZZ), RGB signal cable (QCNW-5050CEZZ), Computer control cable (CTANZ0711CE01), Mouse control cable for IBM PS/2 (QCNW-4754CEZZ), Mouse control cable for Mac (QCNW-4755CEZZ), Mouse control cable (QCNW-4620CEZZ), Computer audio cable (QCNW-4870CEZZ), AC cord

Our projector uses LCD (Liquid Crystal Display) panels. These very sophisticated panels contain 485,616 pixels (× RGB) TFTs (Thin Film Transistors).
As with any high technology electronic equipment such as large screen TVs, video systems and/or video cameras, there are certain acceptable tolerances that the equipment must conform to. This unit has some inactive TFTs within acceptable tolerances, which may result in illuminated or inactive dots on the picture screen.
This will not affect the picture quality or the life expectancy of the unit.

Specifications are subject to change without notice.

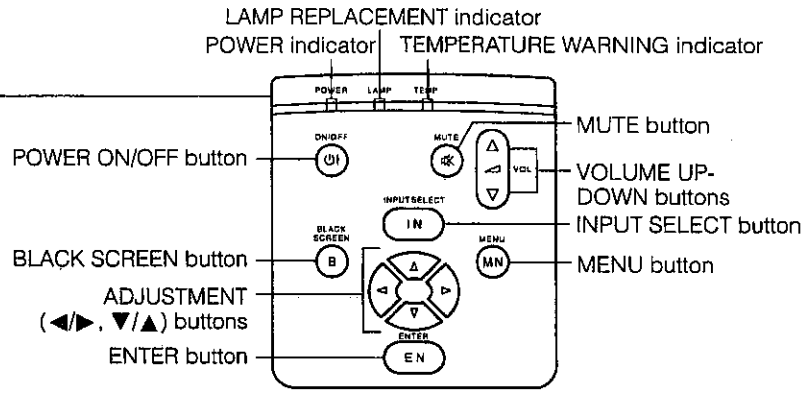
Location of Controls

FRONT VIEW

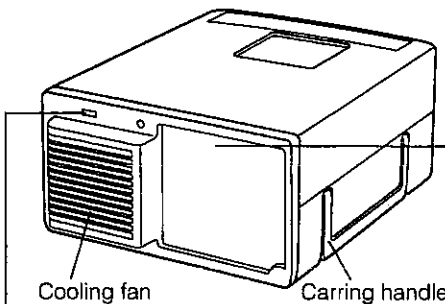


Cautions:
- The exhaust vent, the lamp cage cover and adjacent areas may be extremely hot during projector operation. To prevent injury, do not touch these areas until they have sufficiently cooled.
- Allow at least 10 cm of space between the cooling fan (exhaust vent) and the other nearest wall or obstruction.
- If the cooling fan becomes obstructed, a protection device will automatically turn off the projector lamp. This does not indicate a malfunction. Remove the projector plug from the wall outlet and wait 10 minutes. Then turn on the power by plugging the cord back in. This will return the projector to its normal mode.

OPERATION PANEL ON TOP OF PROJECTOR

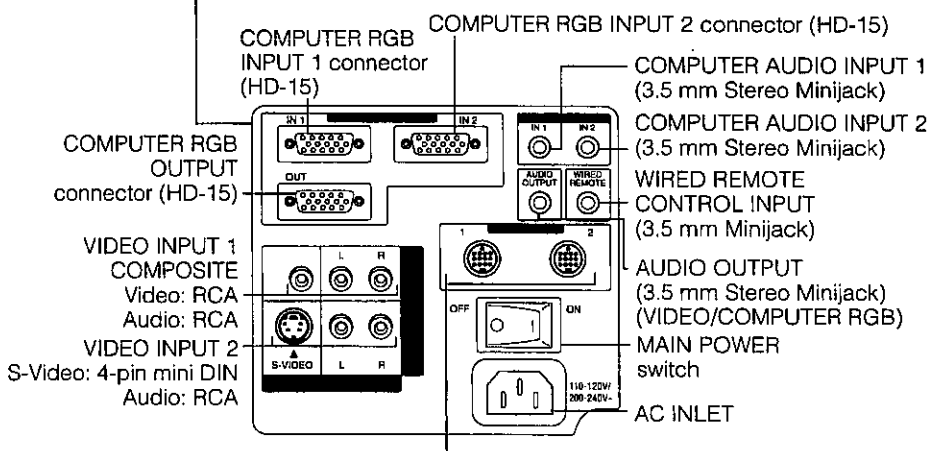


SIDE AND REAR VIEW



Security Lock Anchor
This projector has a Kensington Security Standard connector for use with a Kensington MicroSaver Security System. Refer to the information that came with the system for instructions on how to use it to secure this model.

Note:
- Be sure to use the computer control cable when connecting the PC CONTROL terminals.


COMPUTER RGB INPUT 1 connector (HD-15)
COMPUTER RGB INPUT 2 connector (HD-15)
COMPUTER AUDIO INPUT 1 (3.5 mm Stereo Minijack)
COMPUTER AUDIO INPUT 2 (3.5 mm Stereo Minijack)
COMPUTER RGB OUTPUT connector (HD-15)
WIRED REMOTE CONTROL INPUT (3.5 mm Minijack)
VIDEO INPUT 1 COMPOSITE Video: RCA Audio: RCA
AUDIO OUTPUT (3.5 mm Stereo Minijack) (VIDEO/COMPUTER RGB)
VIDEO INPUT 2 S-Video: 4-pin mini DIN Audio: RCA
MAIN POWER switch
AC INLET

- PC CONTROL 1:
  Use the supplied computer control cable when operating the remote control as a wireless mouse or when controlling the projector from the RS-232C terminal.
- PC CONTROL 2:
  Use the computer control cable (CTANZ0711CE01) (sold separately) when operating the remote control as a wireless mouse.

Notes:
- RS-232C does not function when connected to PC CONTROL 2.

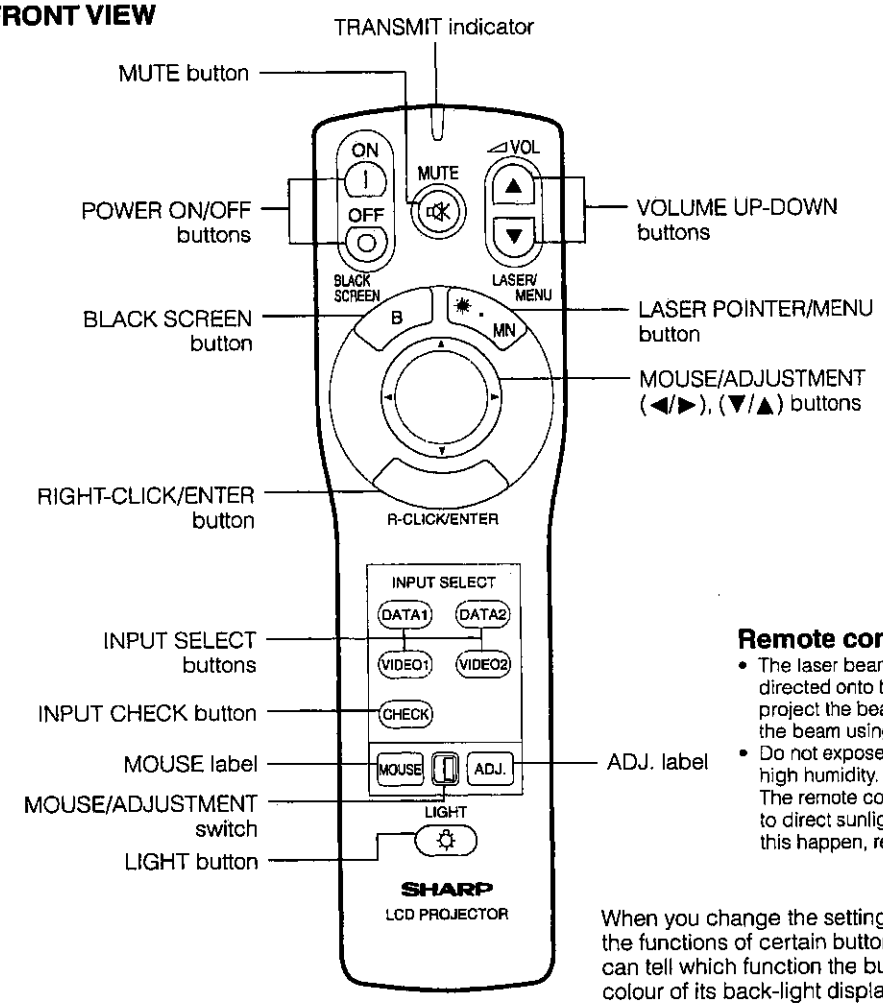
Operating the Wireless Mouse Remote Control

The functions of your personal computer's mouse have been built into the remote control enabling you to operate your projector and personal computer with the remote control.

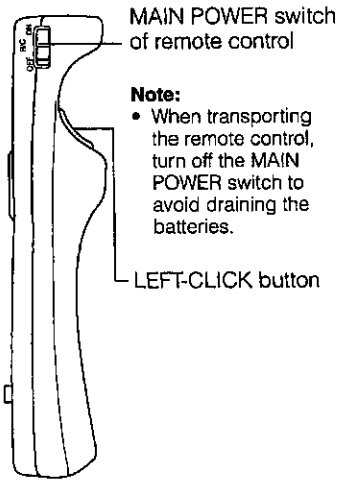
1. Slide the MAIN POWER switch on the rear of the unit on.
2. Press the POWER ON button on the front panel of the remote control to turn the projector power on.
3. When using the remote control as a wireless mouse, move the MOUSE/ADJUSTMENT switch to the MOUSE position. When using the remote control to operate the projector, move the MOUSE/ADJUSTMENT switch to the ADJ. position. To activate the remote control key back-light feature, press the LIGHT button on the remote control. The colours of the buttons will change as shown in the table at the bottom of this page.

Wireless Mouse Remote Control

FRONT VIEW



SIDE VIEW



Note:
- When transporting the remote control, turn off the MAIN POWER switch to avoid draining the batteries.

Remote control handling precautions

- The laser beam used in this product is harmless when directed onto the skin, however please be careful not to project the beam directly into the eyes. Do not stare into the beam using an optical instrument.
- Do not expose the remote control to shocks, liquids or high humidity.
  The remote control may not operate normally if exposed to direct sunlight or other intense light sources. Should this happen, reposition the light source or the projector.

When you change the setting of the MOUSE/ADJUSTMENT switch, the functions of certain buttons on the remote control change. You can tell which function the button currently possesses by the colour of its back-light display.

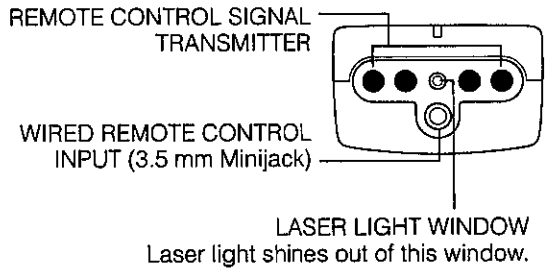
Using the remote control in a dark room

- Press the LIGHT button to turn on the back-lights for the operation buttons for about 5 seconds. The back-light colours are described in the table to the right.

Note:
- If the MAIN POWER switch on the remote control is left on for more than 10 minutes without operation, the power will automatically turn off. To turn the power back on, press any button on the remote control for at least one second.

Button name	Position of MOUSE/ADJUSTMENT switch	
	MOUSE	*ADJ.*
LASER POINTER/MENU	LASER POINTER (GREEN)	MENU (RED)
RIGHT-CLICK/ENTER	RIGHT-CLICK (GREEN)	ENTER (RED)
MOUSE/ADJUSTMENT	MOUSE (NOT LIT)	ADJ. ◀/▶, ▼/▲ (NOT LIT)
LEFT-CLICK	ON (NOT LIT)	—
BLACK SCREEN	ON (RED)	
POWER ON/OFF		
VOLUME UP-DOWN		
MUTE		
DATA 1		
DATA 2		
VIDEO 1		
VIDEO 2		
INPUT CHECK		

TOP VIEW

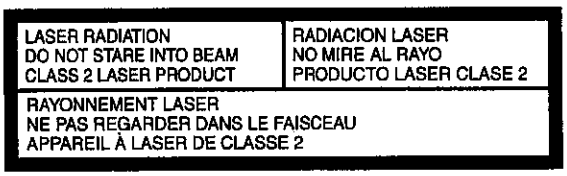

REMOTE CONTROL SIGNAL TRANSMITTER
WIRED REMOTE CONTROL INPUT (3.5 mm Minijack)
LASER LIGHT WINDOW
Laser light shines out of this window.

Using the optional cable with the remote control

When the remote control cannot be used due to the range or positioning of the projector (rear projection, etc.), connect the optional cable from the Wired Remote Control Input jack on the remote control to the Wired Remote Input on the rear of the projector.

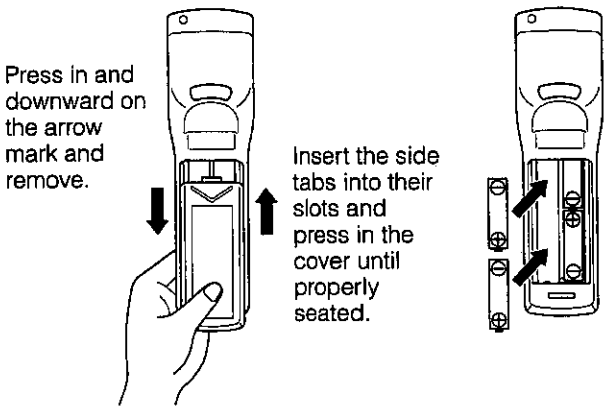
Note:

- The signal transmitter does not function when the optional cable is connected to the remote control.



The laser pointer on the remote control emits a laser beam from the laser light window shown in the figure to the left. The laser emitted is a class II laser; therefore, do not look into the laser window or shine the laser beam on yourself or other people. The two marks to the left are the caution labels for the laser beam.
Always use the laser pointer at temperatures between +5°C and +40°C.

REAR VIEW


Press in and downward on the arrow mark and remove.
Insert the side tabs into their slots and press in the cover until properly seated.

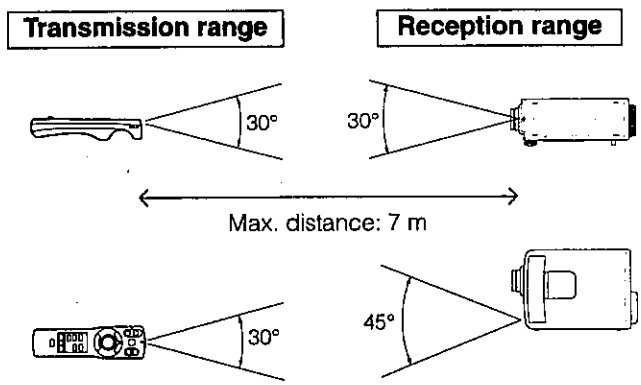
Inserting the batteries

Remove the battery cover as shown and insert four AA size batteries making sure their polarities match the (+) and (−) marks inside the battery compartment.

Notes:

Incorrect use of batteries may cause them to leak or burst.

- Insert the batteries with the (+) and (−) polarities as indicated.
- Remove the batteries if the remote control will not be operated for an extended period of time.
- Maintain the batteries in a clean condition.
- Do not mix different brands of batteries. The life expectancy of the new batteries will be shortened and the old batteries may leak.
- When the batteries have been used up, remove them immediately to prevent leakage and damage. Leaked battery fluid may irritate the skin. Remove any battery fluid by wiping with a cloth.
- Due to storage conditions and the shelf life of the supplied batteries, they may run out after a short time. If so, replace them with new batteries as soon as possible.



Remote control positioning

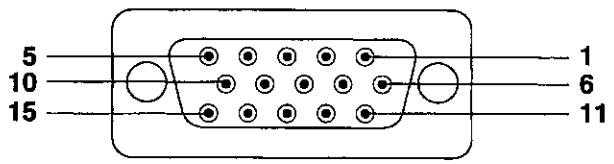
Use the remote control as shown in the figures on the left.

Note:

- The signal from the remote control can be reflected off the screen for easy operation. However, the effective distance of the signal may differ due to the screen material.

Connection Pin Assignments

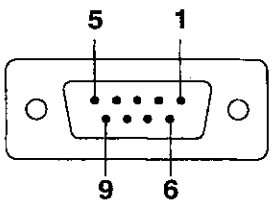
Analog RGB 1 and 2 Signal Input and Analog RGB Output Terminal: 15-pin mini D-sub female connector



Computer Input
Analog

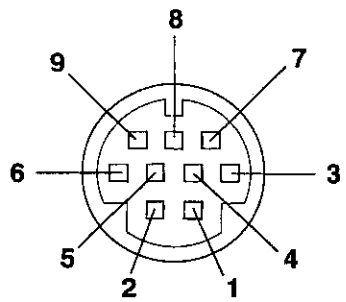
1. Video input (red)
2. Video input (green)
3. Video input (blue)
4. Reserve input 1
5. Composite sync (Mac only)
6. Earth (red)
7. Earth (green)
8. Earth (blue)
9. Not connected
10. GND
11. GND
12. Bi-directional data
13. Horizontal sync signal
14. Vertical sync signal
15. Data clock

Mouse Input Terminal (for IBM/Mac): 9-pin D-sub female connector



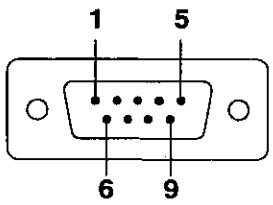
Pin No.	Signal	Name	I/O	Reference
1	CD	Carrier Detect	Input	Connected to internal circuit
2	RD	Receive Data	Input	Connected to internal circuit
3	SD	Send Data	Output	Connected to internal circuit
4	ER	Equipment Ready	Output	Connected to internal circuit
5	SG	Signal Ground		Connected to internal circuit
6	DR	Data Set Ready	Output	Not connected
7	RS	Request to Send	Output	Connected to internal circuit
8	CS	Clear to Send	Input	Connected to internal circuit
9	CI	Ring Indicator	Input	Connected to internal circuit

Mouse Input Terminal (for NEC PC98 series for Japan): 9-pin mini DIN connector



Pin No.	Signal	I/O	Reference
1	+5 V	Input	Computer output
2	XA	Input	Computer output
3	XB	Input	Computer output
4	YA	Input	Computer output
5	YB	Input	Computer output
6	LEFT	Input	Computer output
7	NC	Input	Not connected
8	RIGHT	Input	Computer output
9	GND		Computer output

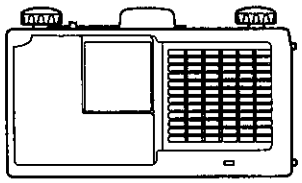
RS-232C terminal: 9-pin D-sub male connector



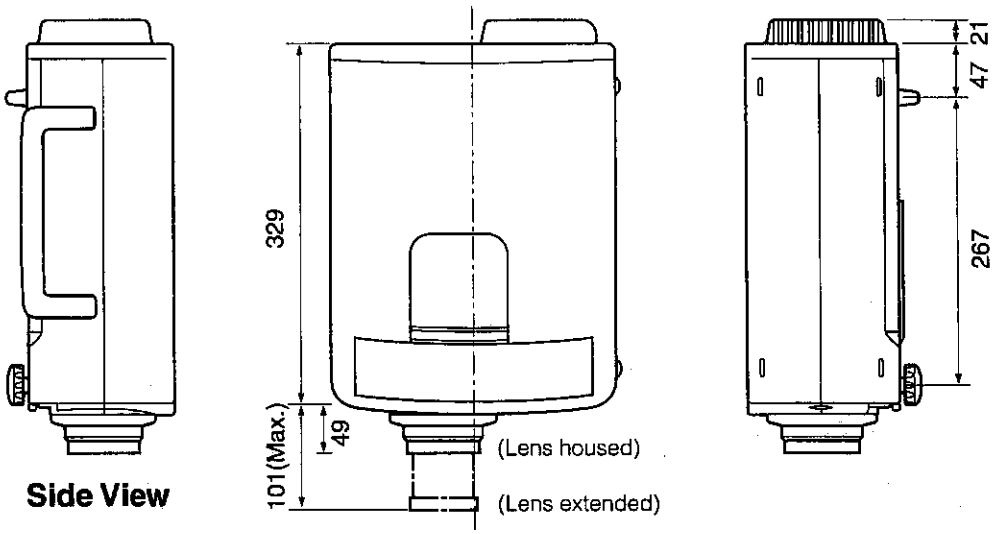
Pin No.	Signal	Name	I/O	Reference
1	CD			Not connected
2	RD	Receive Data	Input	Connected to internal circuit
3	SD	Send Data	Output	Connected to internal circuit
4	ER			Not connected
5	SG	Signal Ground		Connected to internal circuit
6	DR	Data Set Ready	Output	Not connected
7	RS	Request to Send	Output	Connected to internal circuit
8	CS			Not connected
9	CI			Not connected

Dimensions

Rear View

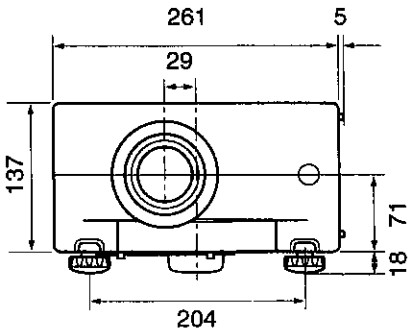


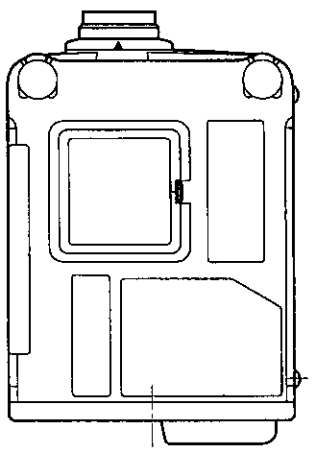
Top View



Side View

Front View





Bottom View

[Units: mm]

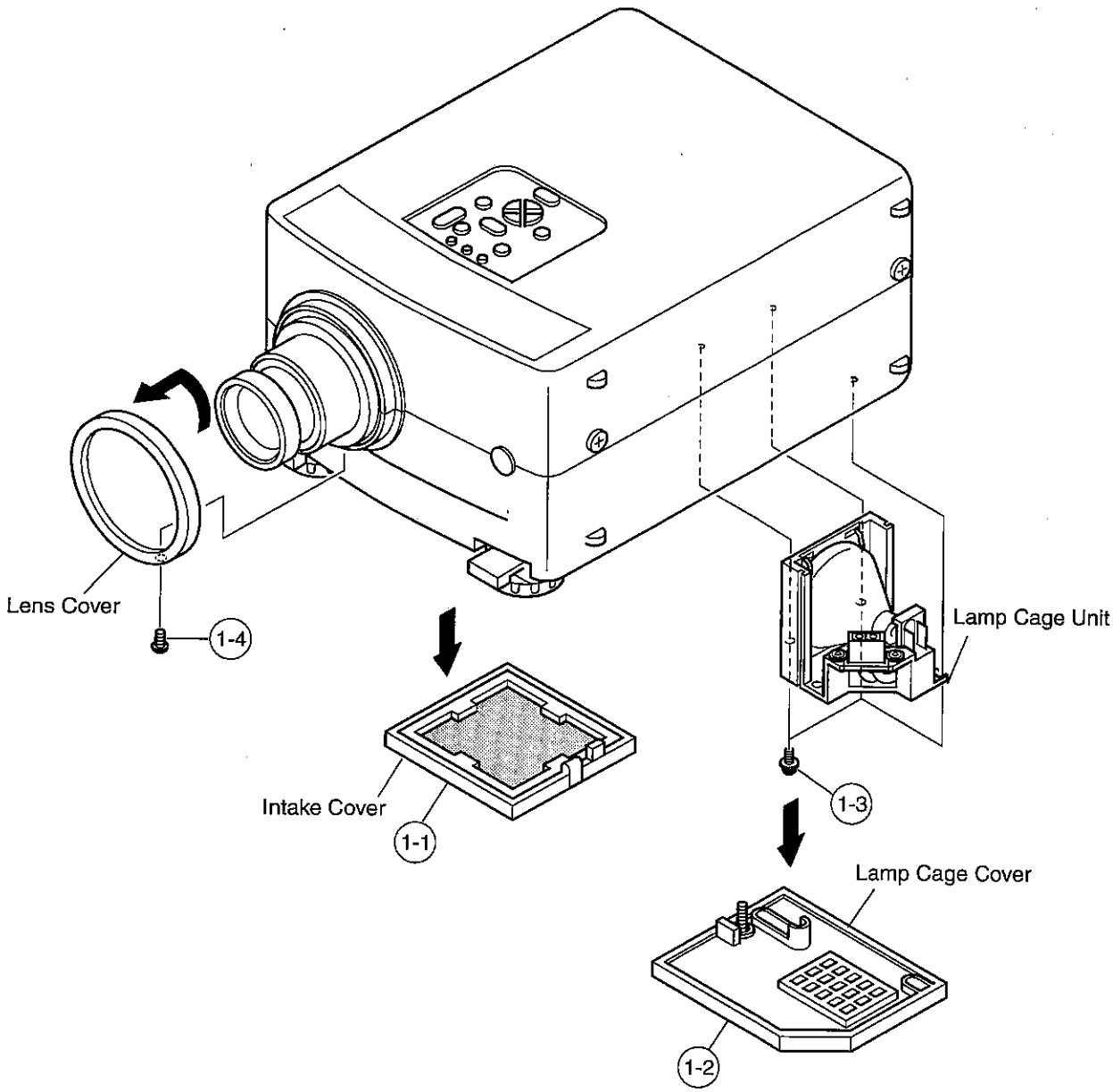
REMOVING OF MAJOR PARTS

1. Removing the Intake cover, lamp unit and lens cover

1-1. Detach the Intake cover.
1-2. Remove the screw off the lamp cage cover and detach the lamp cage cover.
1-3. Remove the three lock screws off the lamp cage unit and detach the lamp cage unit.
1-4. Remove the lock screw from the lens cover. Turn the lens cover clockwise or counterclockwise and detach it.

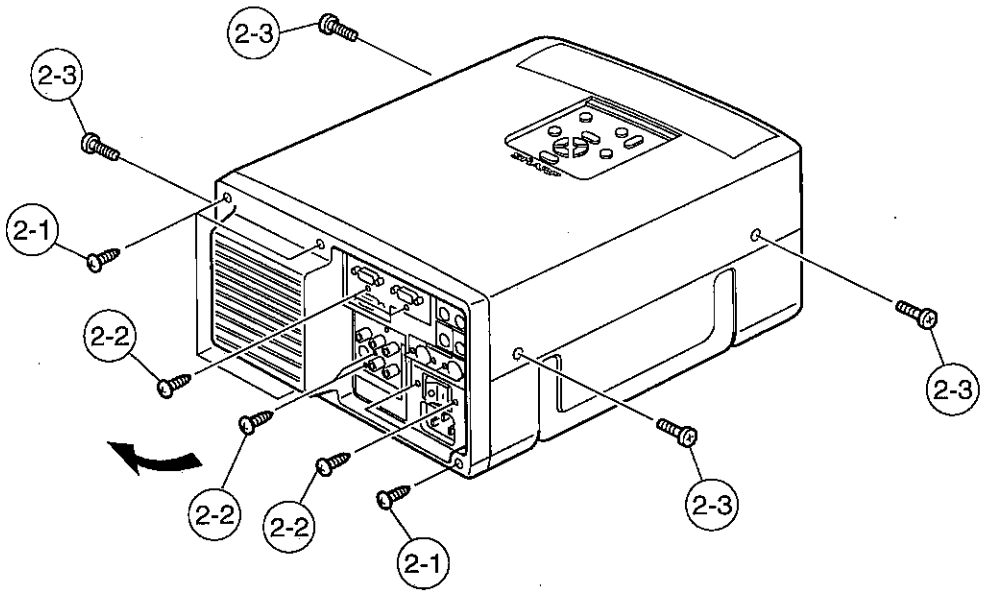
Notes:

- Before the replacement, turn off the projector's power button, make sure the cooling fan comes to a complete stop, and unplug the power cord.
- The lamp may be still very hot. Turn off the power button, unplug the power cord and wait for at least 1 hour before staring the job.
- In fitting the lamp cage unit back into position, make sure the connector is at the top position.

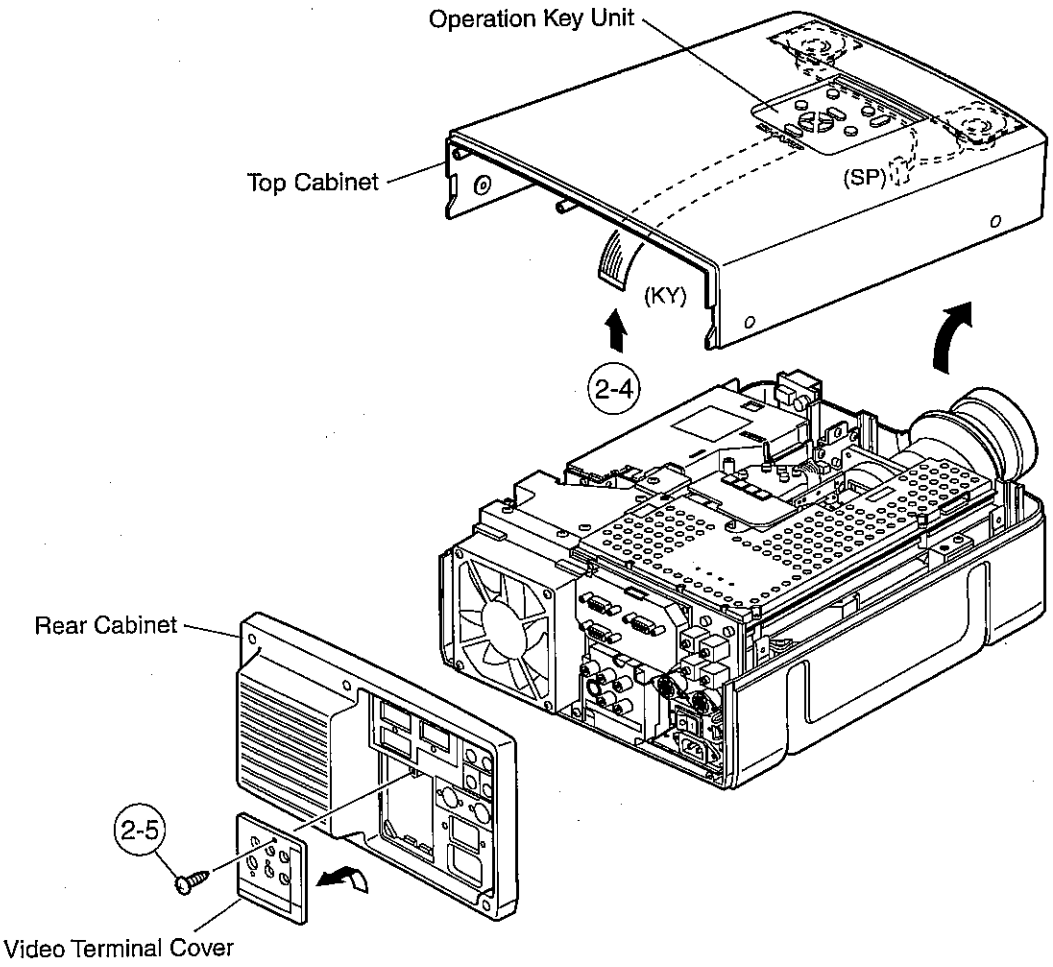


2. Removing the top and rear cabinets

2-1. Remove the five lock screws off the rear cabinet.
2-2. Remove the ten lock screws from the rear cabinet and the terminal plate. Detach the rear cabinet from the bottom first (because it is hooked at the top).
2-3. Remove the four lock screws off the top cabinet.

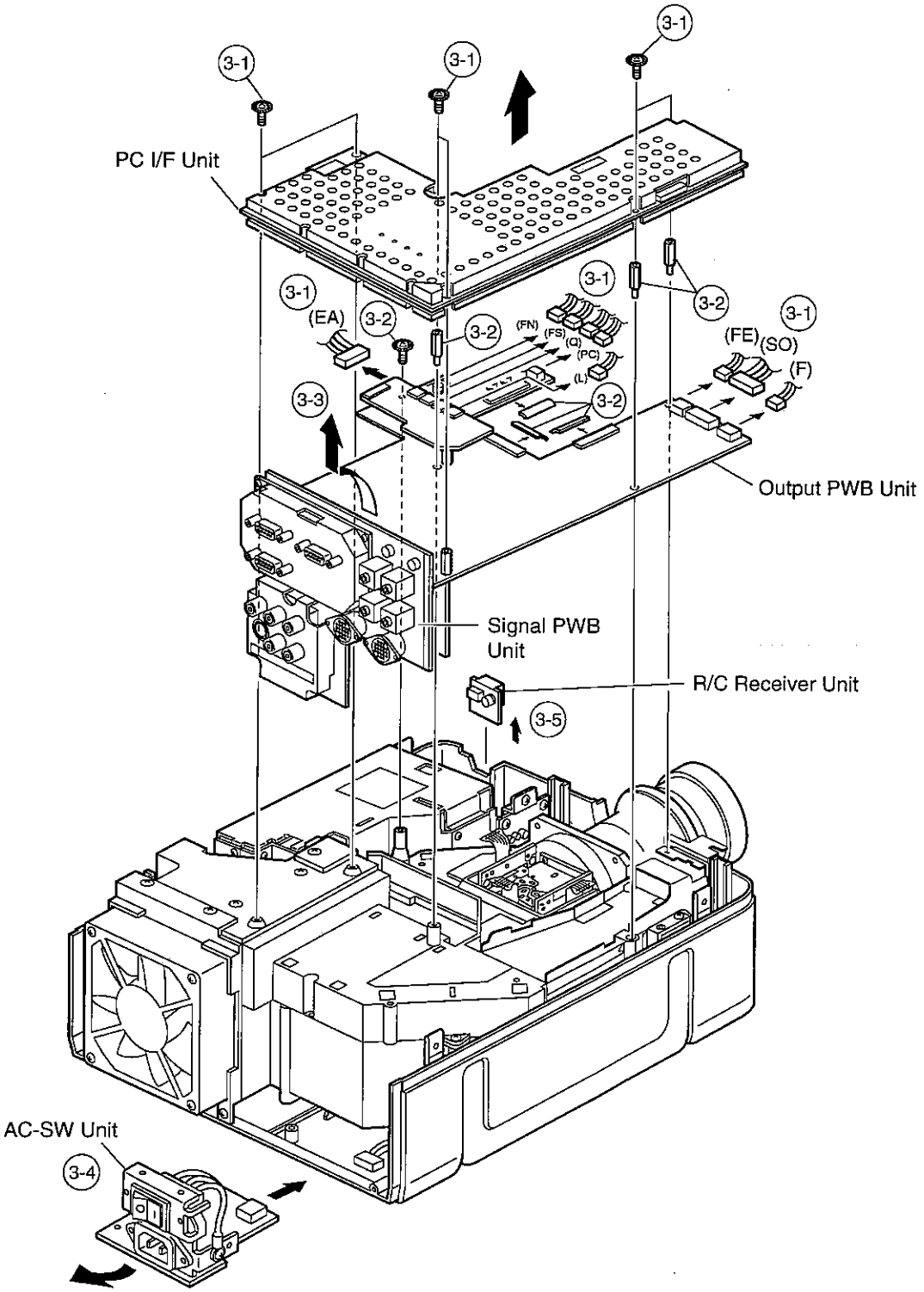


2-4. While pressing the top center at both sides of the bottom cabinet, pull the ends of the top cabinet outward to unhook it. Slowly lift the back of the top cabinet, disconnect the operation key PWB connector (KY) and the speaker connector (SP), and take up and away the top cabinet.
2-5. Remove the lock screw off the video terminal cover and detach the video terminal cover.



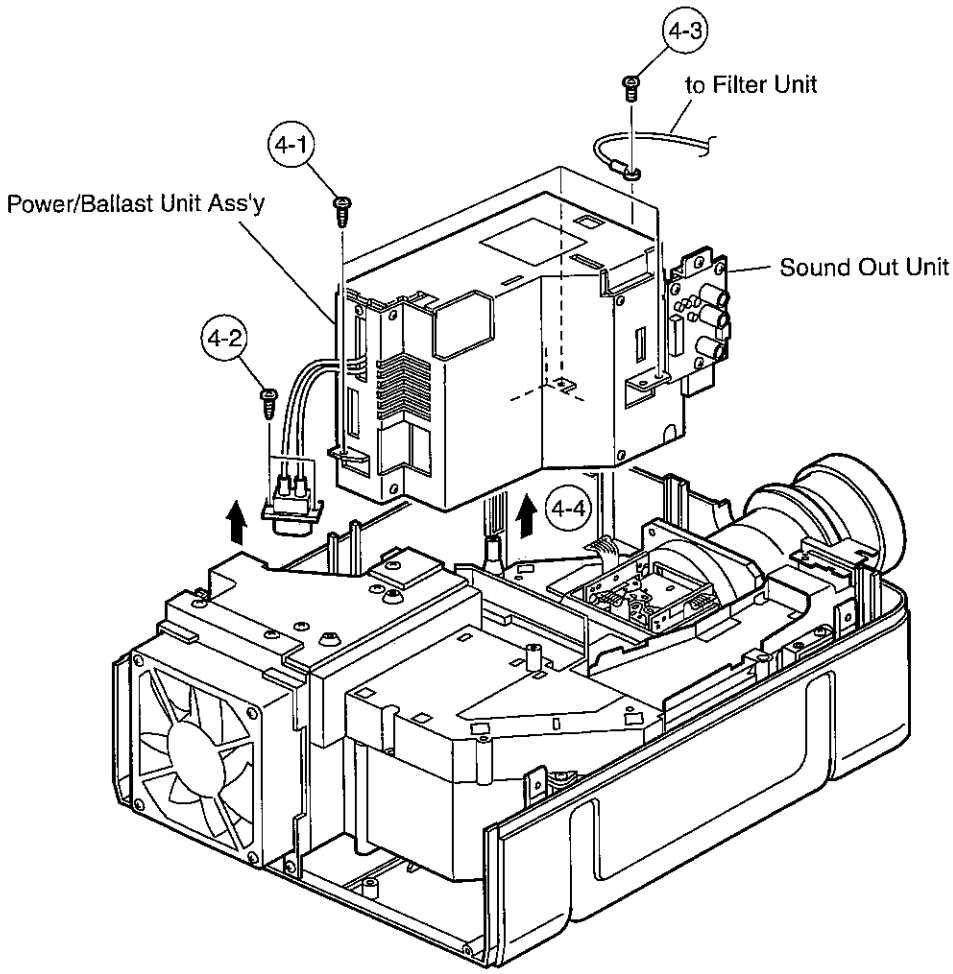
3. Removing the PWBs

3-1. Remove the six lock screws from the PC I/F PWB. Disconnect the output PWB unit connectors. Pull up the PC I/F PWB off the output PWB unit.
3-2. Remove the three spacers and the lock screw from the output PWB unit. Disconnect the LCD flat cables. Pull up and away the output PWB unit together with the signal PWB unit on it.
3-3. Flip up the output PWB unit by 90°. Pull it up off the signal PWB unit.
3-4. Hold up the front of the AC switch PWB and draw the PWB out of position.
3-5. Finally detach the remote control receiver PWB.



4. Removing the power/ballast PWB assembly

4-1. Remove the three lock screws off the power/ballast PWB assembly.
4-2. Remove the two lock screws off the lamp socket holder and detach the holder.
4-3. Disconnect the ground wire from the filter PWB.
4-4. Lift the power/ballast PWB assembly and take out this assembly.

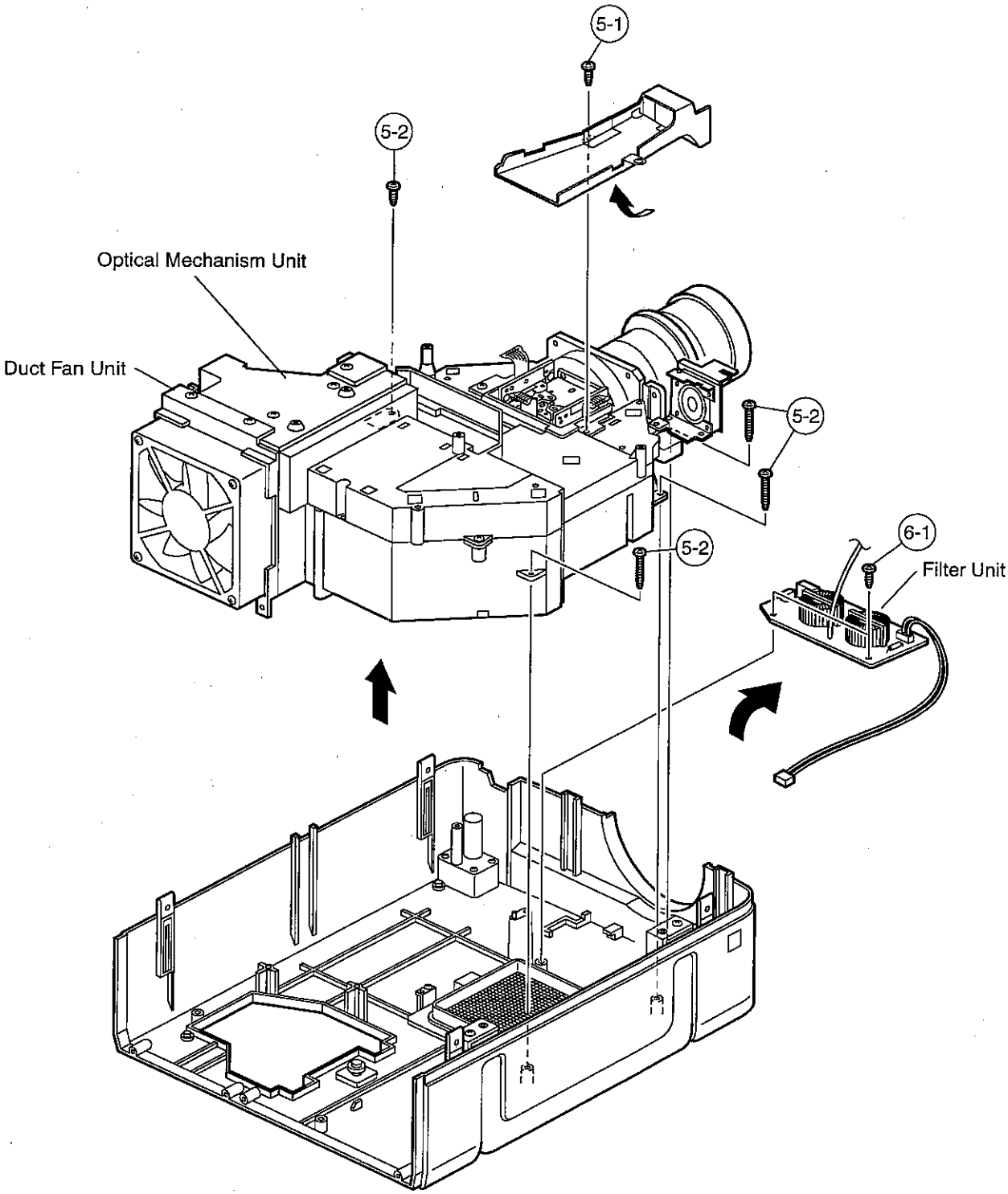


5. Removing the optical mechanism unit

5-1. Remove the lock screw from the IC cooling duct and remove the duct.
5-2. Remove the five lock screws off the optical mechanism unit and detach this unit.

6. Remove the filter PWB

6-1. Remove the two lock screws off the filter PWB and detach this PWB.

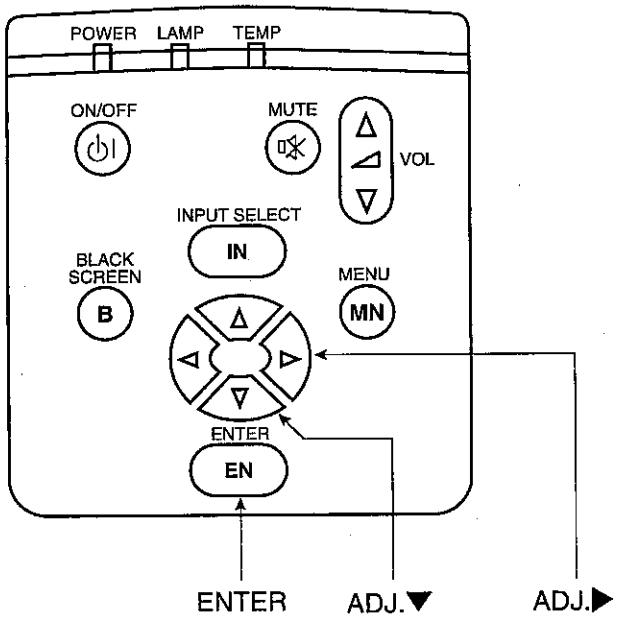


RESETTING THE TOTAL LAMP TIMER

When the lamp has been replaced, reset the total lamp timer in the following steps.

Resetting procedure

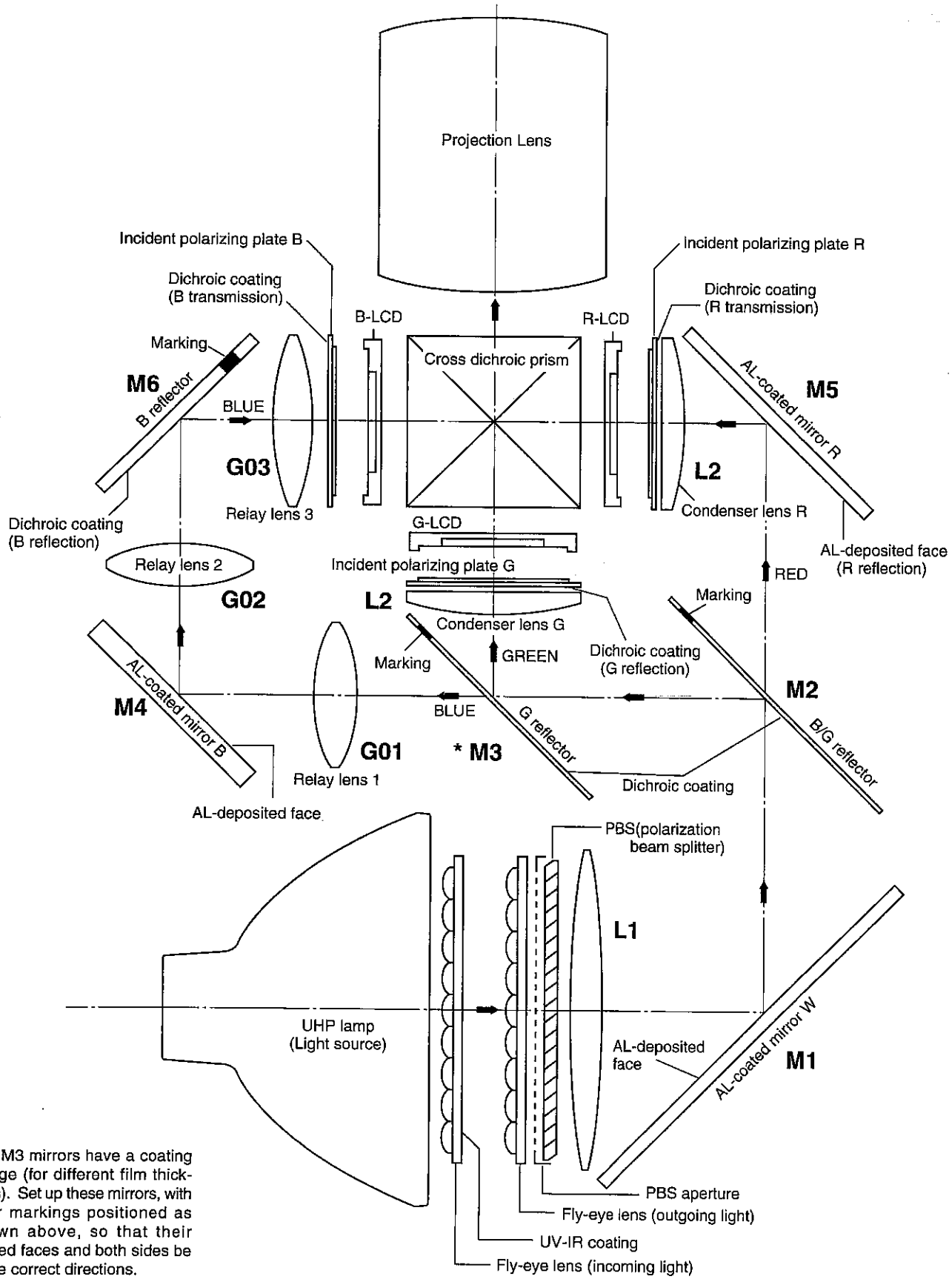
1. While holding down the "ENTER", "ADJ.▼" and "ADJ.▶" keys on the set at the same time, turn on the main power switch (located above the AC inlet).
2. Now the total lamp timer is reset to zero. "000H" appears on the screen.



THE OPTICAL UNIT OUTLINE

Layout of the optical system

Note: Layout for positioning the optical system.



* The M3 mirrors have a coating wedge (for different film thickness). Set up these mirrors, with their markings positioned as shown above, so that their coated faces and both sides be in the correct directions.

CONVERGENCE AND FOCUS ADJUSTMENT

- **Start the convergence and focus adjustments with the top cabinet and the LCD covers (Top/Bottom) removed but the power on. Use the remote control to adjust the image. Take the following procedures.**

1. Focusing the projection lens

(A) Replacing all the 3 LCD panels

1. Before replacing all the 3 LCD panels, project an image on the screen and bring it into focus.
2. Replace the panels with new ones. But until the focus has been completely readjusted, be careful not to change the distance between the set and the screen, nor to move the projection lens focus and zoom rings.

(If the focus is readjusted with a different positional relation, the relation between the projection distance and the screen size is affected. In other words, a short-distance image (40 WIDE, for example) may get out of the focus range, or a long-distance image (300 WIDE, for example) may come out of focus.)

(B) Replacing 1 or 2 of the 3 LCD panels

1. In adjusting the focus after replacement of one or two LCD panels, project an image on the screen and turn the projection lens focus ring to get the non-replaced LCD panel into focus.
2. But until the focus has been completely adjusted for the new LCD panels, be careful not to change the distance between the set and the screen, nor to move the projection lens focus and zoom rings.
   (If the distance has been changed or the projection lens readjusted, repeat the above steps 1 and 2.)

2. Adjusting the G-LCD panel

(A) Focus adjustment. (Make this adjustment on the white-only screen.)

1. Right-and-left focus adjustment (θY direction) .
   Loosen the lock screws "b" and "c" and insert the eccentric screwdriver into the notch and hole "b". Turn the screwdriver until the right and left halves on the screen get into focus.

(First get the right and left halves in balance. Then improve the accuracy while making the adjustment 2 below.)

2. Top-center-bottom focus adjustment (θX and Z directions).
   Loosen the lock screws "a" and "c" and insert the eccentric screwdriver into the notch and hole "a" or "c". Turn the screwdriver until the top, center and bottom on the screen get into focus. In adjusting this top-to-bottom focus, temporarily tighten the lock screw "b" to fix the θY direction adjustment.
3. Repeat the above steps 1 and 2 to finely adjust the focus. Finally tighten up all the lock screws.

Notes :

① Carefully proceed with the focus adjustment because the adjusting directions are correlated.
② In adjusting the convergence and focus, do not move the projection lens zoom and focus rings until the end of all the adjustments.

(B) Convergence adjustment

- The G-LCD panel has no convergence adjustment mechanism. Use this panel as convergence adjustment reference.

3. B-LCD panel adjustment (the same for the R-LCD panel)

(A) Focus adjustment

- Take the same procedure as for the G-LCD panel focus adjustment. Note that the adjustment range is small in the Z direction. If the convergence is quite different between the B-LCD and G-LCD panels, roughly adjust the convergence first and then the focus.

(B) Convergence adjustment

- Use a crosshatch pattern signal for this adjustment.
  Make the adjustment just for the G-colour and the relevant colour.
  (1) Loosen the convergence lock screw "d".
  (2) With the G-LCD panel's screen center as reference, adjust the B-LCD panel in the X, Y and θZ directions.
  (3) Finally tighten up the convergence lock screw "d".

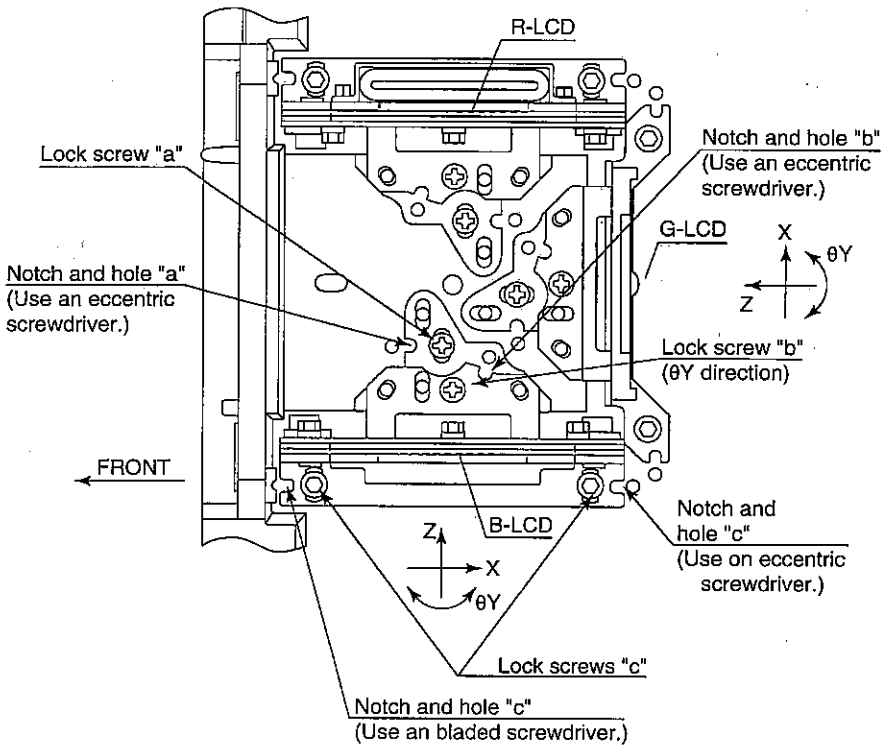
Notes :

① The eccentric cam is used for convergence adjustment. This means that the cam's turning and the linear movement are not always uniform.

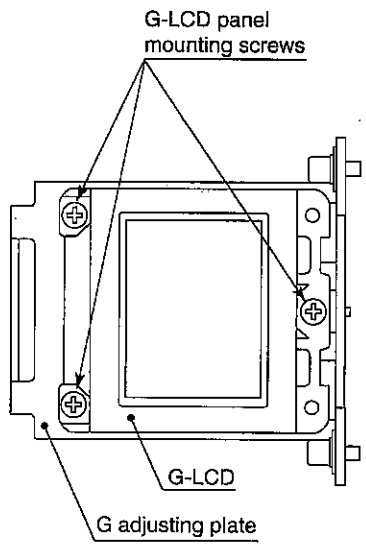
② This model is not equipped with the LCD image adjustment mechanism. This is because the dichroic prism is used for image formation. When the LCD panels all get into the best focus, the images are almost completely converged.

Convergence and Focus Adjustments Mechanism

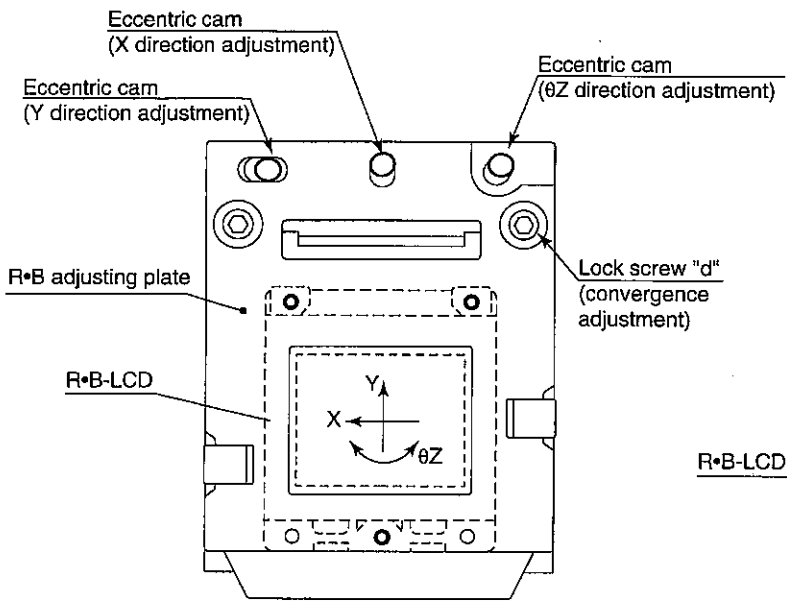
TOP VIEW



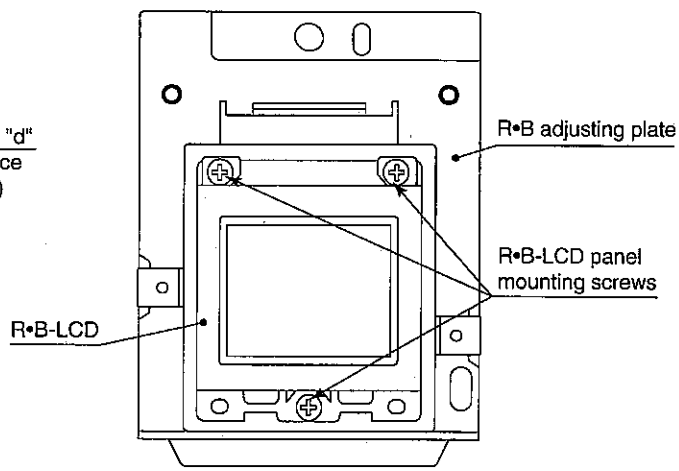
SIDE VIEW



SIDE VIEW (from inside)



SIDE VIEW (from outside)



Convergence and Focus Adjustments at a Glance

Adjustment directions

Adjustment	Direction	Definition	Direction of LCD panel
Convergence	X direction		LCD right and left
	Y direction		LCD top and bottom
	θZ direction	Rotation around Z axis	LCD turning axis
Focus	Z direction		LCD optical axis
	θX direction	Rotation around X axis	LCD top-to-bottom flapping
	θY direction	Rotation around Y axis	LCD right-to-left flapping

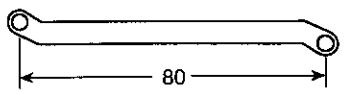
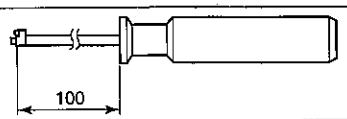
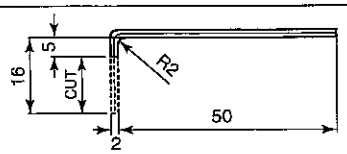
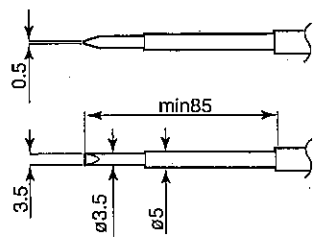
Convergence and Focus Adjustment for the Optical Mechanism

Colour	Adjustment	Direction	Movement	Position	Adjusting tool	Lock screw	Tightening tool
R/B colours	Convergence	X direction	±0.8mm	Eccentric cam	Eccentric cam adjusting wrench	d	Hex wrench
		Y direction	±0.8mm	Eccentric cam	Eccentric cam adjusting wrench	d	Hex wrench
		θZ direction	±1°	Eccentric cam	Eccentric cam adjusting wrench	d	Hex wrench
	Focus	Z direction	±0.8mm	Notch and hole "a" & "c"	Eccentric screwdriver, Bladed screwdriver	a, c	Phillips screwdriver, *Hex wrench
		θX direction	±1°	Notch and hole "a" & "c"		a, c	
		θY direction	±1°	Notch and hole "b" & "c"		b, c	
G colour	Focus	Z direction	±0.2mm	Same as for R and B colours			
		θX direction	±1°				
		θY direction	±1°				

Focus Adjustments the Other Way

Lock screw	Position	Related direction
a	Notch and hole "a"	Z and θX directions
b	Notch and hole "b"	θY direction
c	Notch and hole "c"	Z, θX and θY directions

Convergence and Focus Adjusting and Tightening Tools

Tool	Specific or General	Tool code	Configuration
Eccentric cam adjusting wrench	Specific	9DASPN-XGNV1U	
Eccentric screwdriver	Specific	9EQDRiVER-NV1A	
Hex wrench	General (redesigned)	9EQLNC-XGNV1U	
Bladed screwdriver	General	9EQDRiVER-NV1B	
Phillips screwdriver	General	—	For M2.6 pan-head machine screw
*Hex wrench	General	—	Preferably use a 70 mm or longer screwdriver (with a handle).

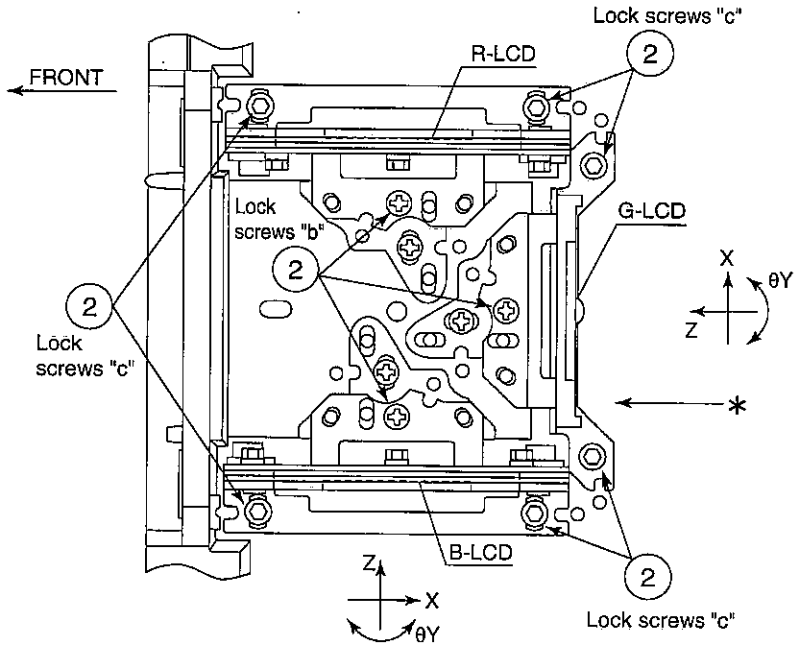
Replacing the LCDs

With the top cabinet removed

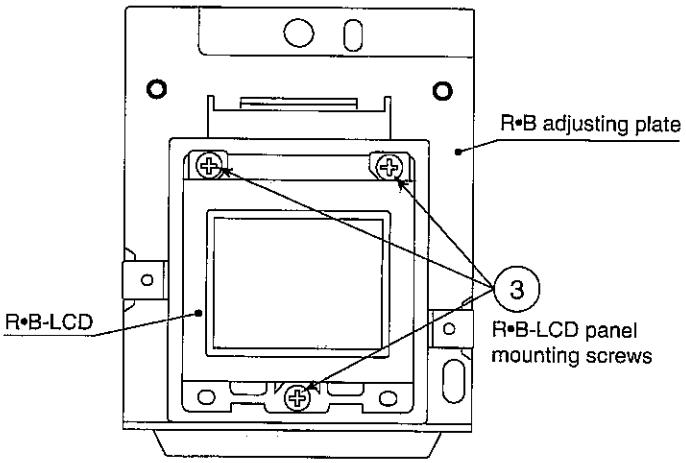
(1) Disconnect the LCD flat cable from the output PWB connector.
(2) Remove the lock screws "b" and "c". Detach the R/B adjusting plate or the G adjusting plate together with the LCD panel.
(3) Separate the LCD panel from the adjusting plate.
(4) Mount a new LCD panel in the reverse order of the above steps (1), (2) and (3).

* Readjust the convergence and focus. Note that the G LCD panel needs no convergence adjustment and has a small adjustment range in the Z direction.

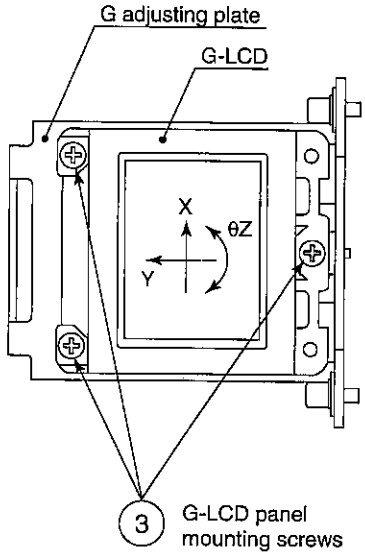
TOP VIEW



SIDE VIEW



SIDE VIEW

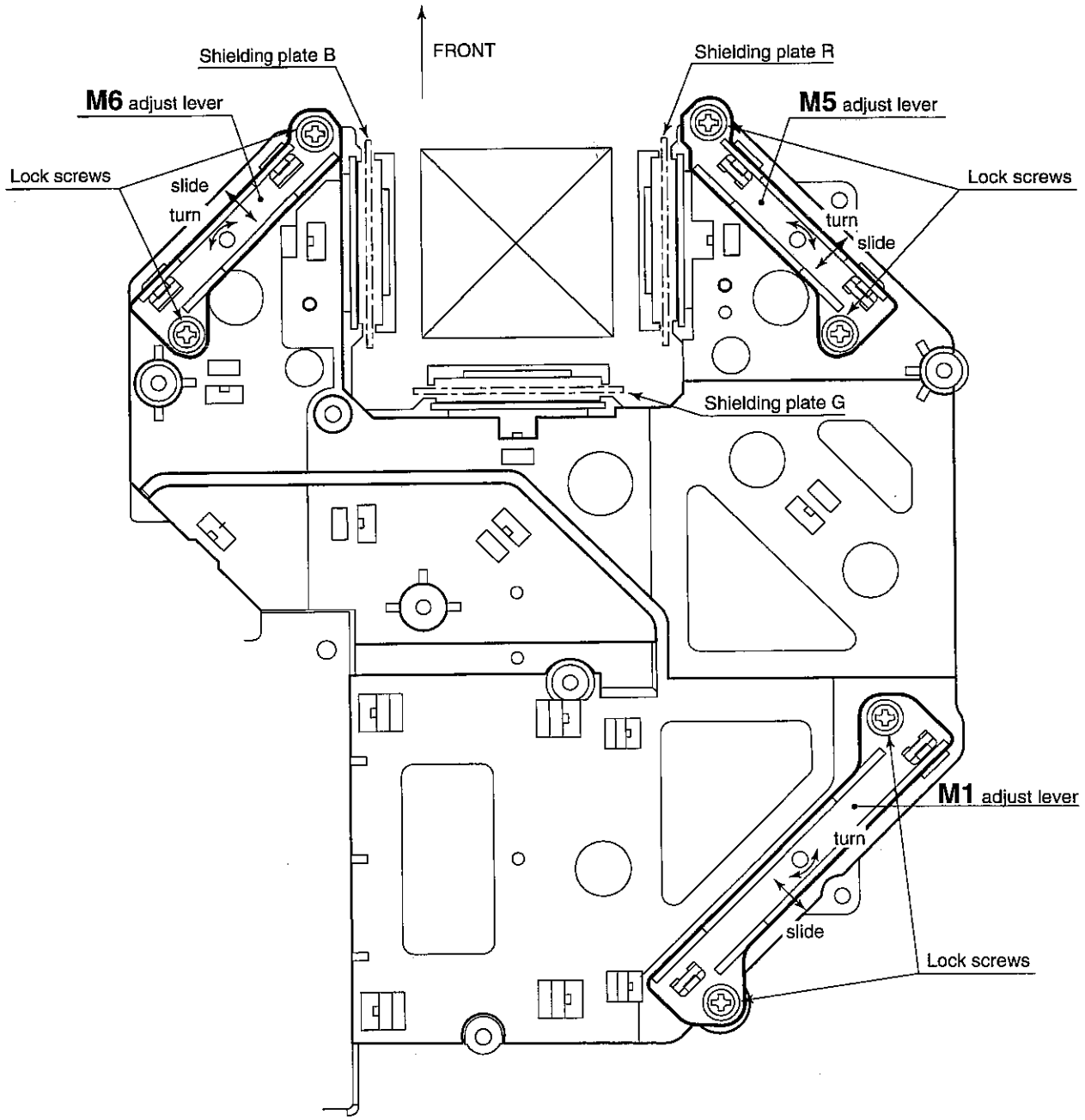


Adjusting the optical axis of the mirrors (M1, M5 and M6)

The optical axis must be readjusted if an eclipse happens with the R. G or B mirrors. Generally speaking, this adjustment is needed when any of the internal optical components has been replaced.

Adjustment procedure required when any of the panels has been replaced or the convergence has been adjusted

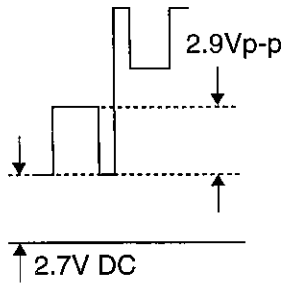
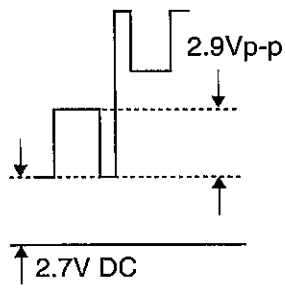
(1) Disconnect the flat cables of all the LCD panels.
(2) Let the lamp light up.
(3) To adjust the G mirror, shield the R and B mirrors with shielding plates (You can use a business card or the like to block the light).
(4) Loosen the lock screw of the M1 adjust lever.
(5) Looking at the G image on the screen, turn or slide the M1 adjust lever until the eclipse on the screen disappears. Tighten up the screw.
(6) To adjust the R mirror, shield the G and B mirrors and adjust the M5 adjust lever. For the B mirror, shield the R and G mirrors and adjust the M6 adjust lever.
(Take the same steps (4) and (5) above.)
(7) Remove all the shielding plates to have a white image.
Make sure there is no eclipse.

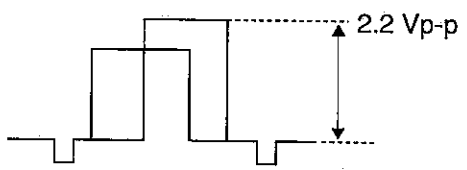


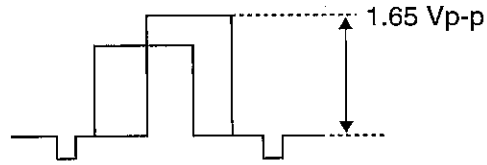
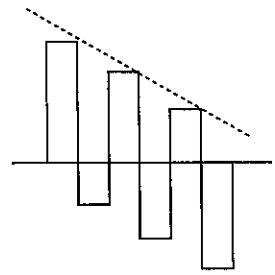
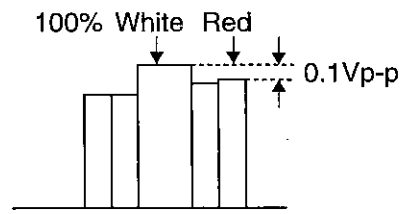
ELECTRICAL ADJUSTMENT

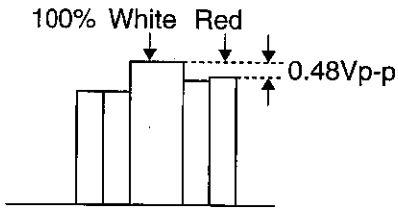
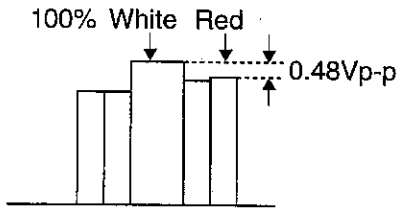
Hook up a signal generator, or a DOSV or Mac personal computer to the projector in order to feed the signals specified in the Adjusting conditions.

No.	Adjusting point	Adjusting conditions	Adjusting procedure
1	**EEPROM initialization**	1. Turn on the power (make sure the lamp lights up) and warm up the unit for 15 minutes.	• Make the following settings: Press S5001 to call up the process mode and execute S2 in the SSS menu. Now the system, with the PC board not included, is initialized. Do not execute S1 because otherwise the PC board will be initialized. To adjust the PC board, follow the instruction in "Adjusting the PC board". (See page 27)
2	**R drive**	1. Make the following choice. Group : A/D Subject : GAIN Make sure the GAIN value is 163. 2. Feed the 100% red-only signal, SVGA (800 x 600) 60Hz, 700mV at PC IN connector. Group : A/D Subject : R-D	• Using the control switches or the remote controller buttons, adjust the data so that the signal becomes bit-less (noise).
3	**B drive**	1. Feed the 100% blue-only signal, SVGA (800 x 600) 60Hz, 700mV at PC IN connector. Group : A/D Subject : B-D	• Using the control switches or the remote controller buttons, adjust the data so that the signal becomes bit-less (noise).
4	**G drive**	1. Feed the 100% green-only signal, SVGA (800 x 600) 60Hz, 700mV at PC IN connector. Group : A/D Subject : G-D	• Using the control switches or the remote controller buttons, adjust the data so that the signal becomes bit-less (noise).

No.	Adjusting point	Adjusting conditions	Adjusting procedure
5	**RGB 1 system black level signal amplitude (odd-numbered)**	1. Make the following choice: Group : OUTPUT 1 Subject : R1-BLK R1-GAIN For green, choose the subjects G1-BLK and G1-GAIN. For blue, choose the subjects B1-BLK and B1-GAIN. 2. Connect the oscilloscope to pin (4)(TP1101) of SC1101 for red. Pin (4)(TP1201) of SC1201 for green Pin (4)(TP1301) of SC1301 for blue	• Choose the subject R1-BLK and adjust the black peak level to 2.7 ±0.1V DC using the control switches or the remote controller buttons. • Next, choose the subject R1-GAIN and adjust the signal amplitude to 2.9 ±0.1 Vp-p. • Make the same adjustment for green and blue. 
6	**RGB 2 system black level signal amplitude (even-numbered)**	1. Make the following choice: Group : OUTPUT 2 Subject : R2-BLK(R) R2-GAIN For green, choose the subjects G2-BLK and G2-GAIN. For blue, choose the subjects B2-BLK and B2-GAIN. 2. Connect the oscilloscope to pin (6)(TP1102) of SC1101 for red. Pin (6)(TP1202) of SC1201 for green Pin (6)(TP1302) of SC1301 for blue	• Choose the subject R2-BLK and adjust the black peak level to 2.7 ±0.1V DC using the control switches or the remote controller buttons. • Next, choose the subject R2-GAIN and adjust the signal amplitude to 2.9 ±0.1 Vp-p.  • Make the same adjustment for green and blue. • Feed the SVGA gradation pattern single-colour signal and make sure that there is no difference in brightness between adjacent vertical lines. If there is a difference, make fine adjustment by choosing the following subjects. R2-GAIN for red G2-GAIN for green B2-GAIN for blue.
7	**Sample-and-hold pulse phase** **RCK-PHASE** **GCK-PHASE** **BCK-PHASE**	1. Feed the XGA mode 75-Hz black signal. 2. Make the following choice: Group : OUTPUT 3 Subject : SH-PHASE (Have the standard level at 8.) Fix the R-, G- and B-PHASE settings all to 4.	• Using the control switches or the remote controller buttons, make sure that the "OUTPUT 3" characters are not blurry and there is no ghost image. If such blur or ghost occurs, finely adjust the setting in the range of 7~9.

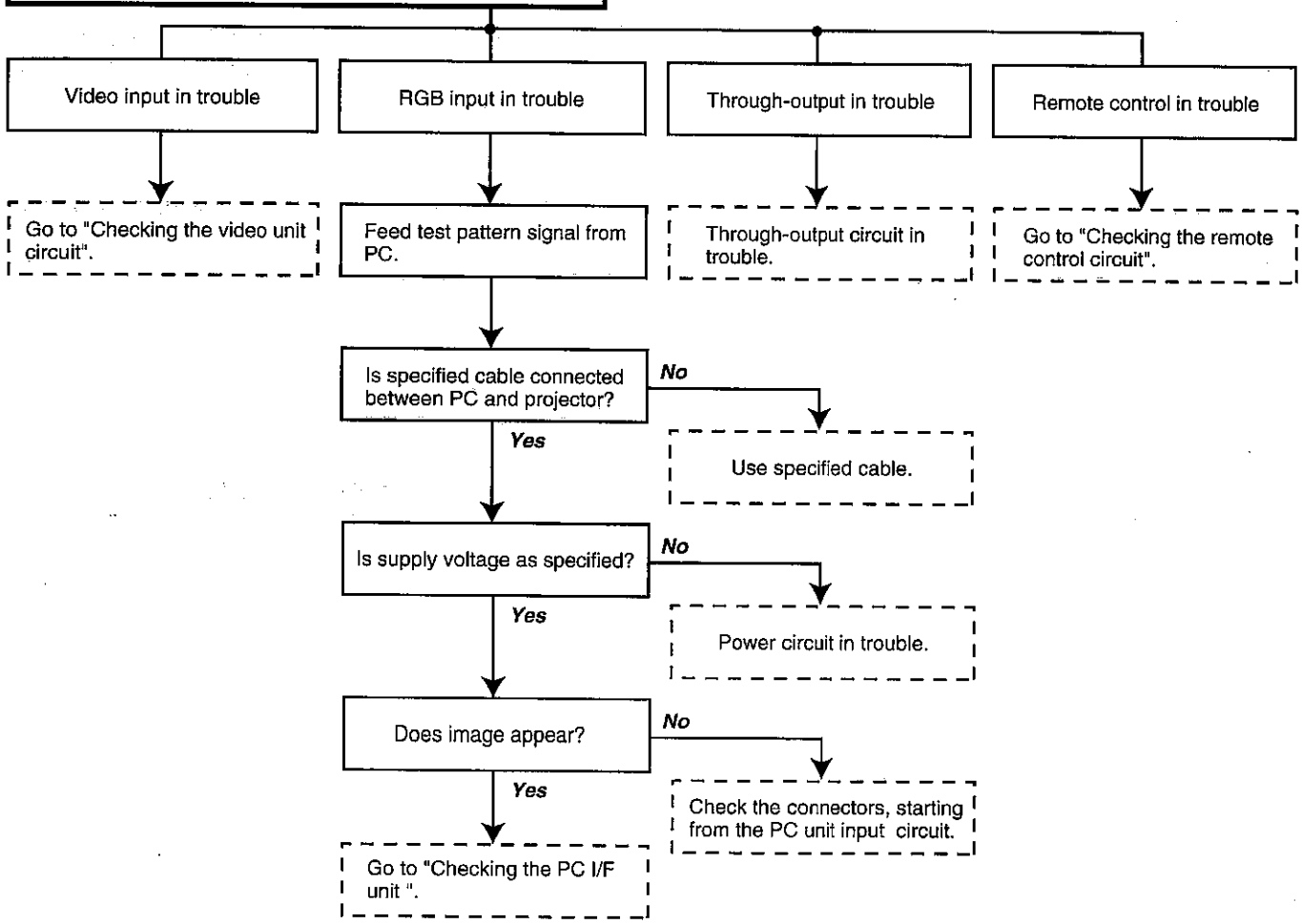
No.	Adjusting point	Adjusting conditions	Adjusting procedure
8	**RGB counter-voltage adjustment**	1. Feed the black-and-red (25%) stripe signal (SVGA) to RGB1. 2. Make the following choice: Group : OUTPUT 3 Subject : RC (R) 3. Change to the outer RG1 at the shoot of the operating switches or the remote controller buttons.	• Using the control switches or the remote controller buttons, adjust the data in order to minimize the flicker. • Make the same adjustment for BC (B) and GC (G). • See if the image is equally adjusted at the center and both sides of the screen. If not, readjust the setting to have the image equal at right and left.
9	**RGB white balance**	1. Feed the 32-step gray scale signal (SVGA). Group : OUTPUT 1 Subject : R1-BLK R1-GAIN (R) B1-BLK B1-GAIN (B)	• Choose the subjects R1-BLK and B1-BLK and adjust the black balance of the gradation. Choose the subjects R1-GAIN and B1-GAIN and adjust the gray-to-while balance.
10	**Horizontal center**	1. Feed the NTSC monoscope pattern signal. 2. Group : VIDEO 2 Subject : N358-DLY N443-DLY PAL-DLY SECAM-DLY Make sure all the settings are zero (0). 3. Group : VIDEO 1 Subject : NTSC-H	• Using the control switches or the remote controller buttons, adjust the data to have the same overscan.
11	**Video picture adjustment**	1. Feed the split colour bar signal. Group : VIDEO 1 Subject : PICTURE 2. Connect the oscilloscope between pin (2) of P801 and GND.	• Using the control switches or the remote controller buttons, adjust the black-to-white (100%) level difference to 2.2 ±0.02 Vp-p. 

No.	Adjusting point	Adjusting conditions	Adjusting procedure
12	**Video AGC**	1. Feed the split colour bar signal. Group : VIDEO 1 Subject : AGC 2. Connect the oscilloscope between pin (2) of P801 and GND.	• Using the control switches or the remote controller buttons, adjust the black-to-white (100%) level difference to 1.65 ±0.02 Vp-p. 
13	**Video brightness adjustment**	1. Feed the baseband (split colour bar) signal. (The ON-AIR signal is not accepted because of its too much noise.) Group : VIDEO 1 Subject : BRIGHT 2. Press the control switch or the remote control's mute button (to set the gamma correction to the process setting).	• Using the control switches or the remote controller buttons, adjust the setting until the black signal becomes bit-less.
14	**Tint**	1. Feed the split colour bar signal. Group : VIDEO 1 Subject : TINT 2. Connect the oscilloscope to pin (5) of P801.	• Using the control switches or the remote controller buttons, adjust the data to have the -(B-Y) waveform downhill straight. 
15	**NTSC colour saturation level**	1. Feed the split colour bar signal. Group : VIDEO 1 Subject : N-COLOR 2. Connect the oscilloscope to pin (1) of P801.	• Using the control switches or the remote controller buttons, adjust the difference between the 100% white portion and the red portion to 0.1 ±0.02 Vp-p. 

No.	Adjusting point	Adjusting conditions	Adjusting procedure
16	**PAL colour saturation level**	1. Feed the PAL colour bar signal. Group : VIDEO 1 Subject : P-COLOR 2. Connect the oscilloscope to pin (1) of P801.	• Using the control switches or the remote controller buttons, adjust the difference between the 100% white portion and the red portion to 0.48±0.02 Vp-p. 
17	**SECAM colour saturation level**	1. Feed the SECAM colour bar signal. Group : VIDEO 1 Subject : S-COLOR 2. Connect the oscilloscope to pin (1) of P801.	• Using the control switches or the remote controller buttons, adjust the data to have a level difference of 0.48 ±0.02 Vp-p between the 100% white portion and the red portion. 
18	**Video white balance**	1. Feed the NTSC mono-scope pattern signal. Group : VIDEO 2 Subject : R1-GAIN B1-GAIN	• Using the control switches or the remote controller buttons, adjust the data so that the white balance be just the best white balance. If the black side is not properly adjusted, first readjust the black side by making the following choice: Group : OUTPUT 1 Subject : R1-BLK B1-BLK Then, make the following choice: Group : VIDEO 2 Subject : R1-GAIN B1-GAIN Readjust the related data. Since the subjects R1-BLK and B1-BLK are common for the RGB input and VIDEO input, feed the RGB signal again to adjust the white balance.
19	**Colour system performance check**	1. Receive the colour bar signal.	• In the process mode and select L1. Check the colour and tint.
20	**Video system performance check**	1. Receive the monoscope pattern signal.	• In the process mode and select L2. Check the picture, brightness and sharpness.

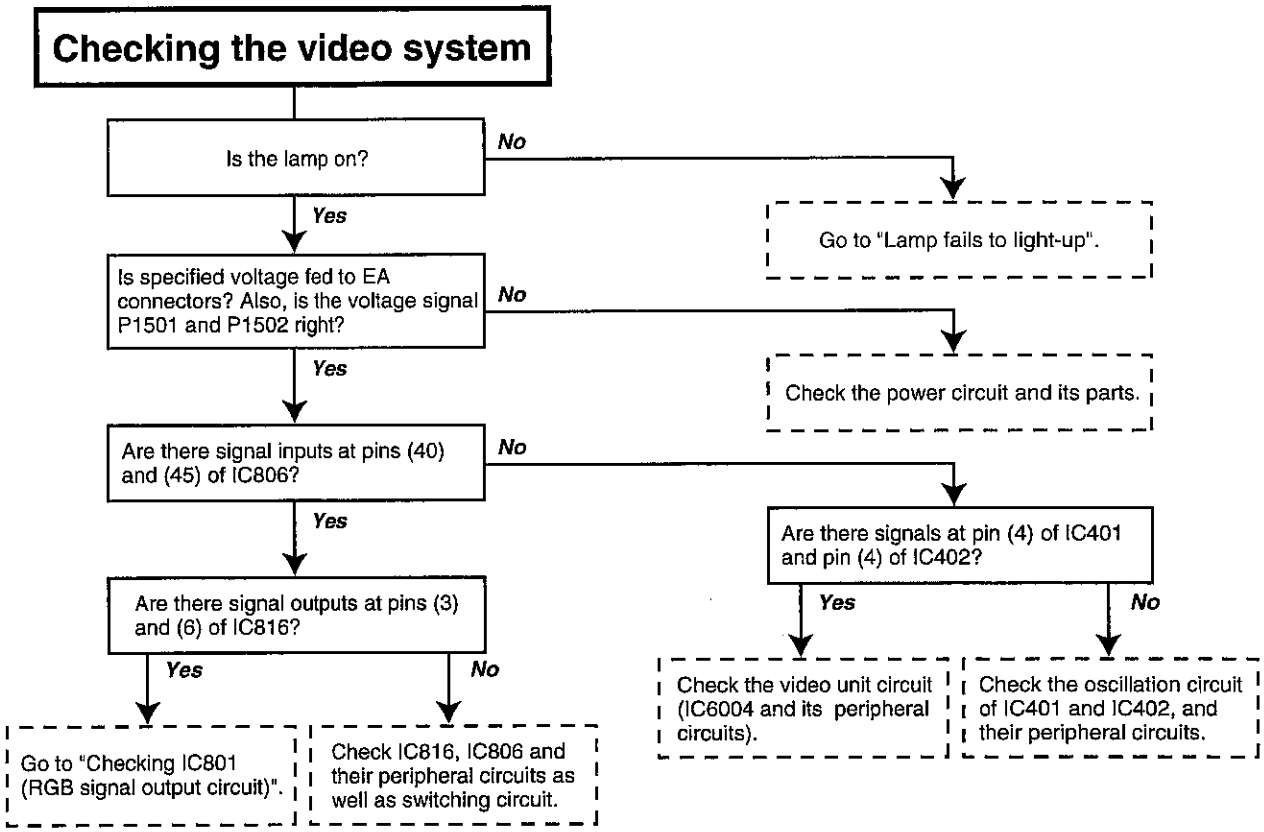
TROUBLE SHOOTING TABLE

Checking the PWB performance

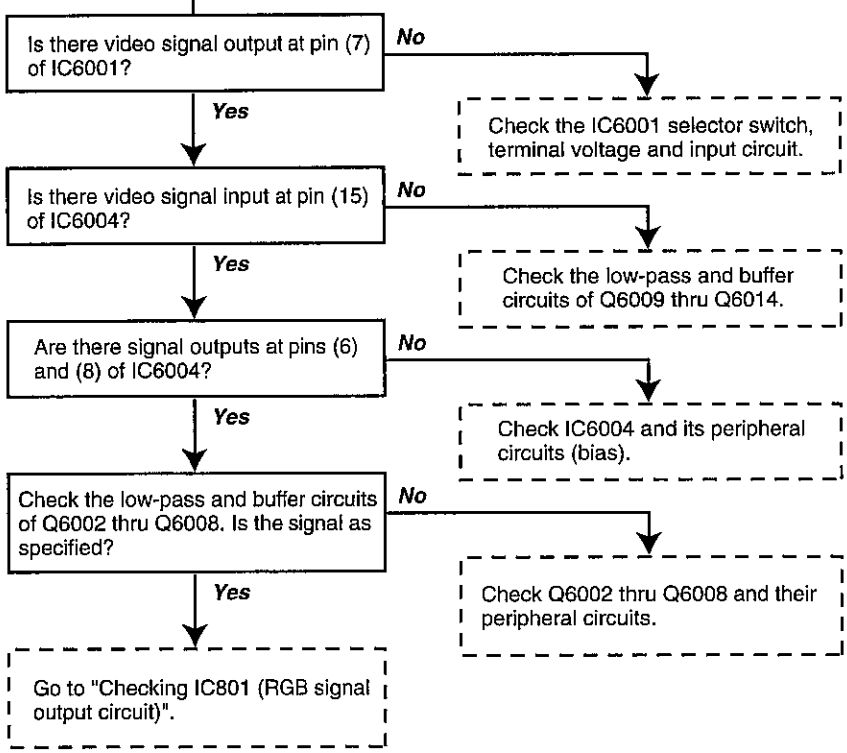

Video input in trouble
RGB input in trouble
Through-output in trouble
Remote control in trouble
Go to "Checking the video unit circuit".
Feed test pattern signal from PC.
Through-output circuit in trouble.
Go to "Checking the remote control circuit".
Is specified cable connected between PC and projector?
No
Use specified cable.
Yes
Is supply voltage as specified?
No
Power circuit in trouble.
Yes
Does image appear?
No
Check the connectors, starting from the PC unit input circuit.
Yes
Go to "Checking the PC I/F unit ".

TROUBLE SHOOTING TABLE (Continued)

Checking the video system

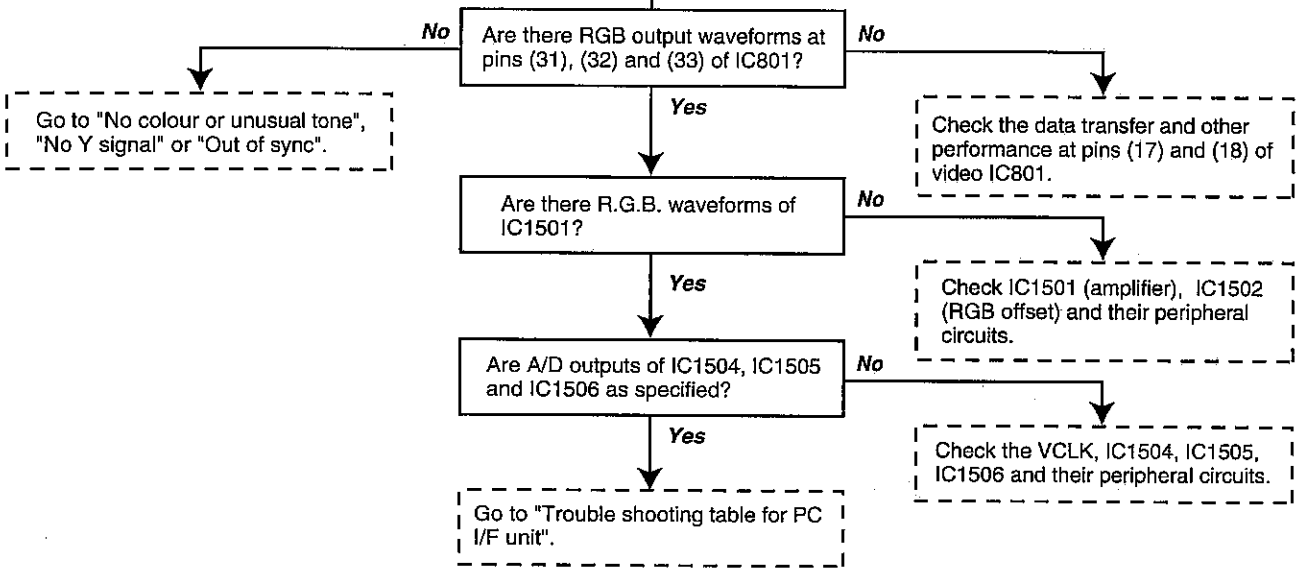

Is the lamp on?
No
Yes
Go to "Lamp fails to light-up".
Is specified voltage fed to EA connectors? Also, is the voltage signal P1501 and P1502 right?
No
Yes
Check the power circuit and its parts.
Are there signal inputs at pins (40) and (45) of IC806?
No
Yes
Are there signals at pin (4) of IC401 and pin (4) of IC402?
Yes
No
Are there signal outputs at pins (3) and (6) of IC816?
Yes
No
Check the video unit circuit (IC6004 and its peripheral circuits).
Check the oscillation circuit of IC401 and IC402, and their peripheral circuits.
Go to "Checking IC801 (RGB signal output circuit)".
Check IC816, IC806 and their peripheral circuits as well as switching circuit.

Checking the video unit circuit

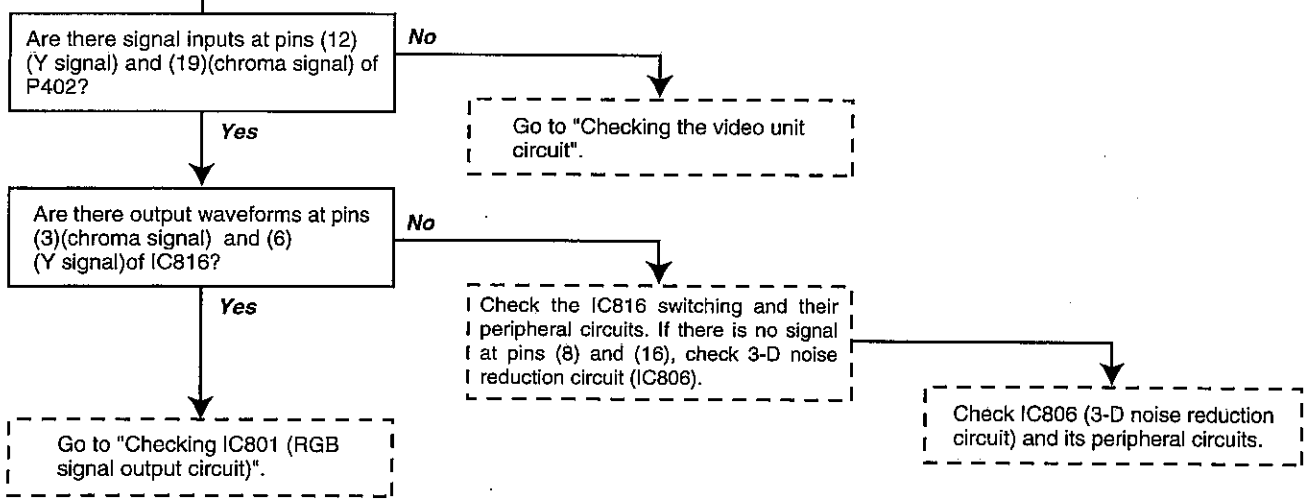

Is there video signal output at pin (7) of IC6001?
No
Yes
Check the IC6001 selector switch, terminal voltage and input circuit.
Is there video signal input at pin (15) of IC6004?
No
Yes
Check the low-pass and buffer circuits of Q6009 thru Q6014.
Are there signal outputs at pins (6) and (8) of IC6004?
No
Yes
Check IC6004 and its peripheral circuits (bias).
Check the low-pass and buffer circuits of Q6002 thru Q6008. Is the signal as specified?
No
Yes
Check Q6002 thru Q6008 and their peripheral circuits.
Go to "Checking IC801 (RGB signal output circuit)".

TROUBLE SHOOTING TABLE (Continued)

Checking IC801 (RGB signal output circuit)

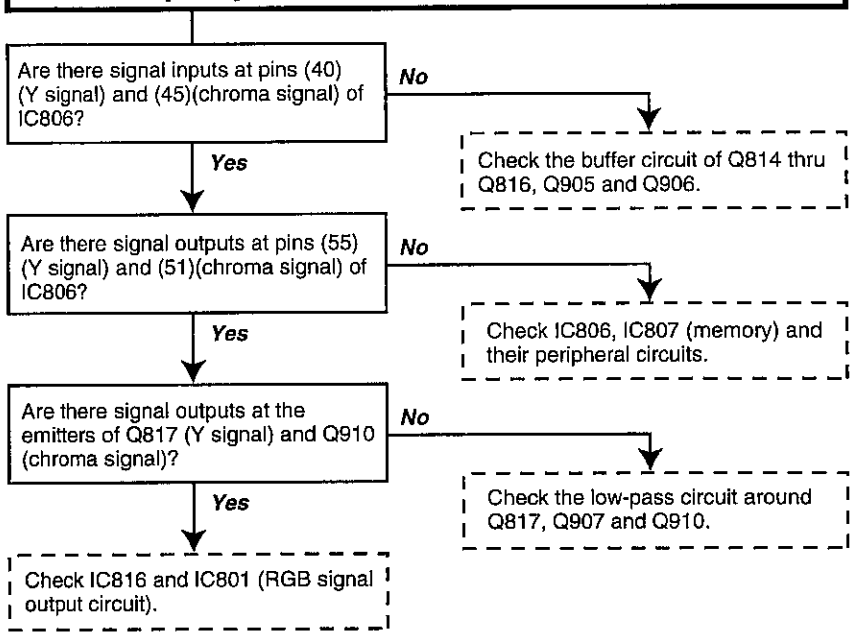

Are there RGB output waveforms at pins (31), (32) and (33) of IC801?
No
Go to "No colour or unusual tone", "No Y signal" or "Out of sync".
No
Check the data transfer and other performance at pins (17) and (18) of video IC801.
Yes
Are there R.G.B. waveforms of IC1501?
No
Check IC1501 (amplifier), IC1502 (RGB offset) and their peripheral circuits.
Yes
Are A/D outputs of IC1504, IC1505 and IC1506 as specified?
No
Check the VCLK, IC1504, IC1505, IC1506 and their peripheral circuits.
Yes
Go to "Trouble shooting table for PC I/F unit".

Checking the chroma and Y signals of IC801 (RGB signal output)

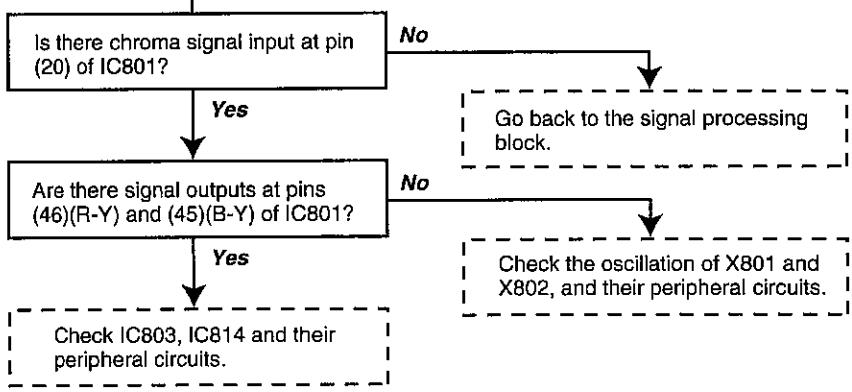

Are there signal inputs at pins (12) (Y signal) and (19)(chroma signal) of P402?
No
Go to "Checking the video unit circuit".
Yes
Are there output waveforms at pins (3)(chroma signal) and (6) (Y signal)of IC816?
No
Check the IC816 switching and their peripheral circuits. If there is no signal at pins (8) and (16), check 3-D noise reduction circuit (IC806).
Yes
Check IC806 (3-D noise reduction circuit) and its peripheral circuits.
Go to "Checking IC801 (RGB signal output circuit)".

TROUBLE SHOOTING TABLE (Continued)

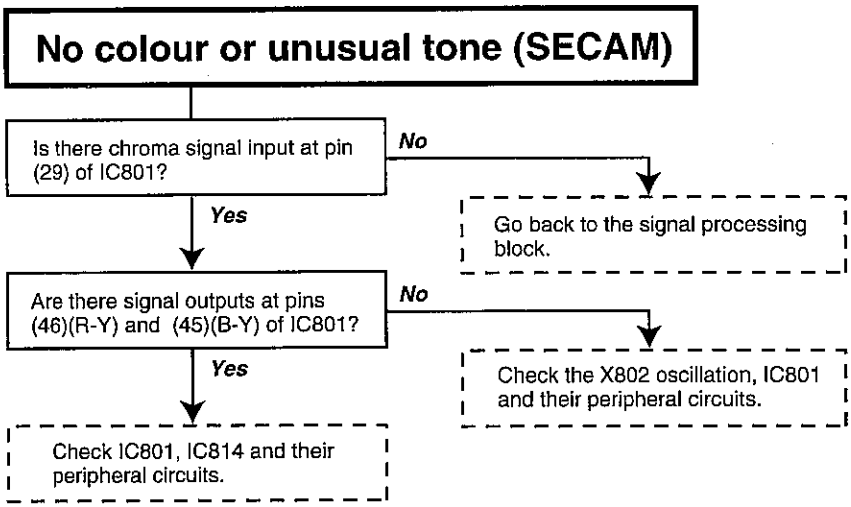
Checking IC806 (3-D noise reduction circuit) and its peripheral circuits


Are there signal inputs at pins (40) (Y signal) and (45)(chroma signal) of IC806?
No
Check the buffer circuit of Q814 thru Q816, Q905 and Q906.
Yes
Are there signal outputs at pins (55) (Y signal) and (51)(chroma signal) of IC806?
No
Check IC806, IC807 (memory) and their peripheral circuits.
Yes
Are there signal outputs at the emitters of Q817 (Y signal) and Q910 (chroma signal)?
No
Check the low-pass circuit around Q817, Q907 and Q910.
Yes
Check IC816 and IC801 (RGB signal output circuit).

No colour or unusual tone (NTSC, PAL)

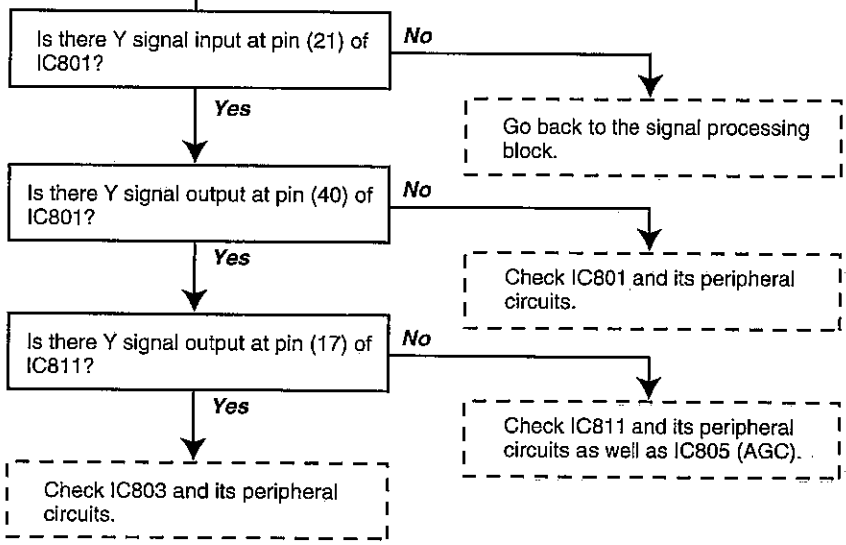

Is there chroma signal input at pin (20) of IC801?
No
Go back to the signal processing block.
Yes
Are there signal outputs at pins (46)(R-Y) and (45)(B-Y) of IC801?
No
Check the oscillation of X801 and X802, and their peripheral circuits.
Yes
Check IC803, IC814 and their peripheral circuits.

No colour or unusual tone (SECAM)

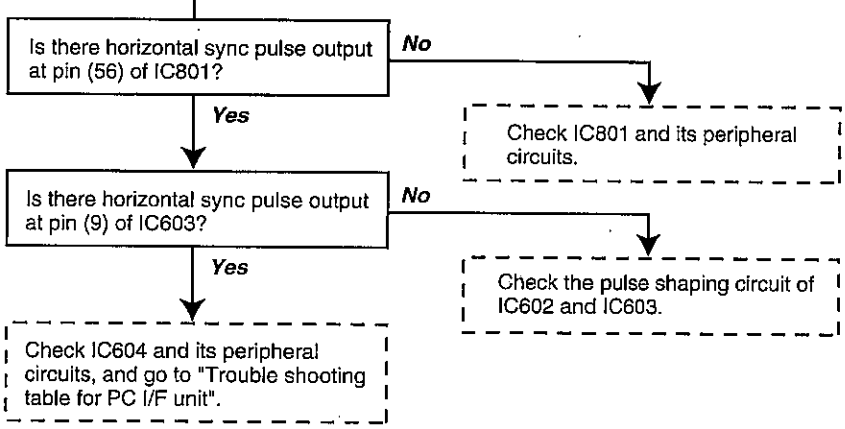

Is there chroma signal input at pin (29) of IC801?
No
Go back to the signal processing block.
Yes
Are there signal outputs at pins (46)(R-Y) and (45)(B-Y) of IC801?
No
Check the X802 oscillation, IC801 and their peripheral circuits.
Yes
Check IC801, IC814 and their peripheral circuits.

TROUBLE SHOOTING TABLE (Continued)

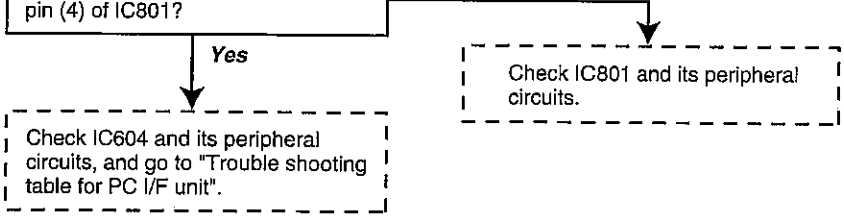
No or unusual Y signal


Is there Y signal input at pin (21) of IC801?
No
Yes
Go back to the signal processing block.
Is there Y signal output at pin (40) of IC801?
No
Yes
Check IC801 and its peripheral circuits.
Is there Y signal output at pin (17) of IC811?
No
Yes
Check IC811 and its peripheral circuits as well as IC805 (AGC).
Check IC803 and its peripheral circuits.

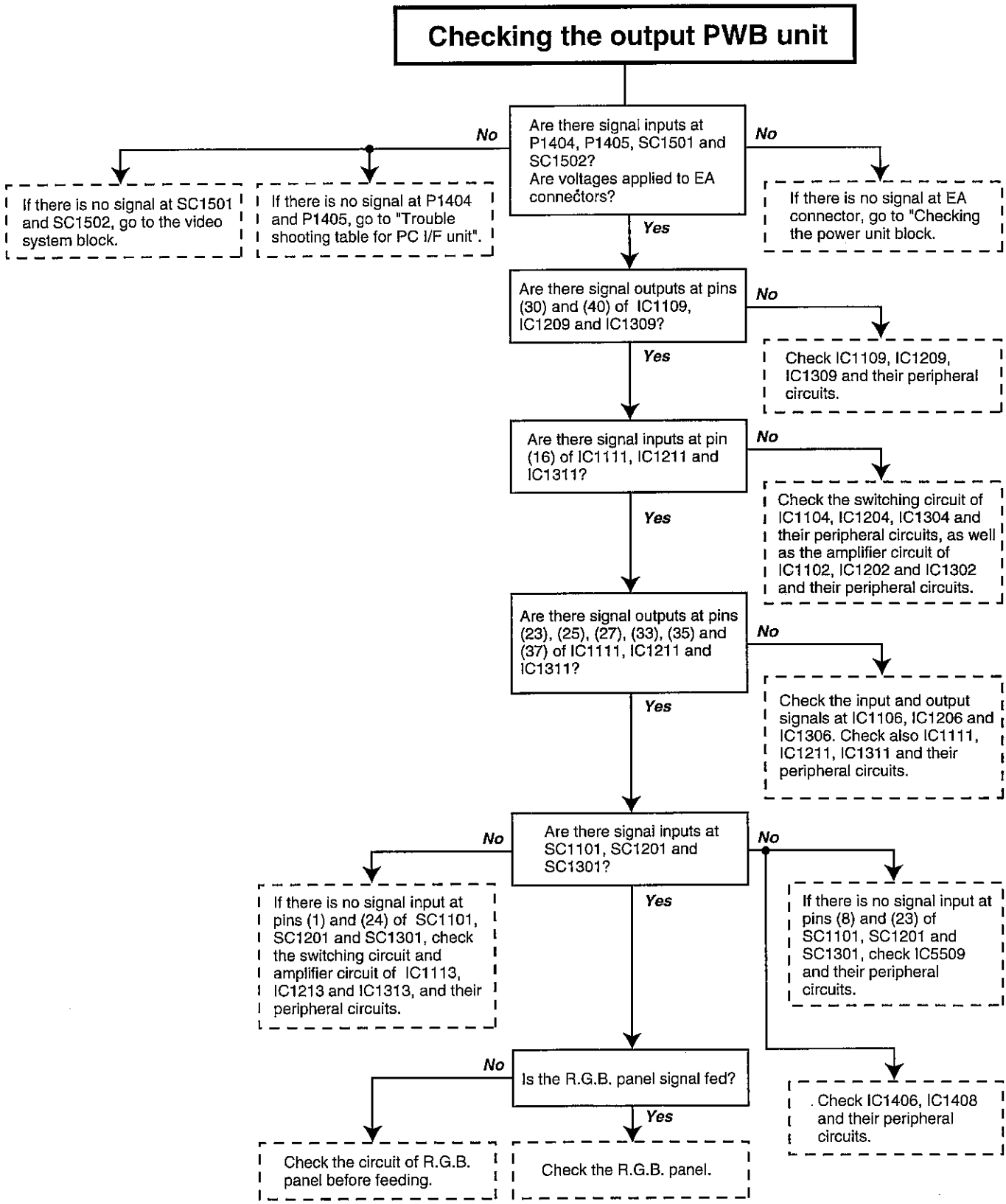
No or unusual horizontal sync


Is there horizontal sync pulse output at pin (56) of IC801?
No
Yes
Check IC801 and its peripheral circuits.
Is there horizontal sync pulse output at pin (9) of IC603?
No
Yes
Check the pulse shaping circuit of IC602 and IC603.
Check IC604 and its peripheral circuits, and go to "Trouble shooting table for PC I/F unit".

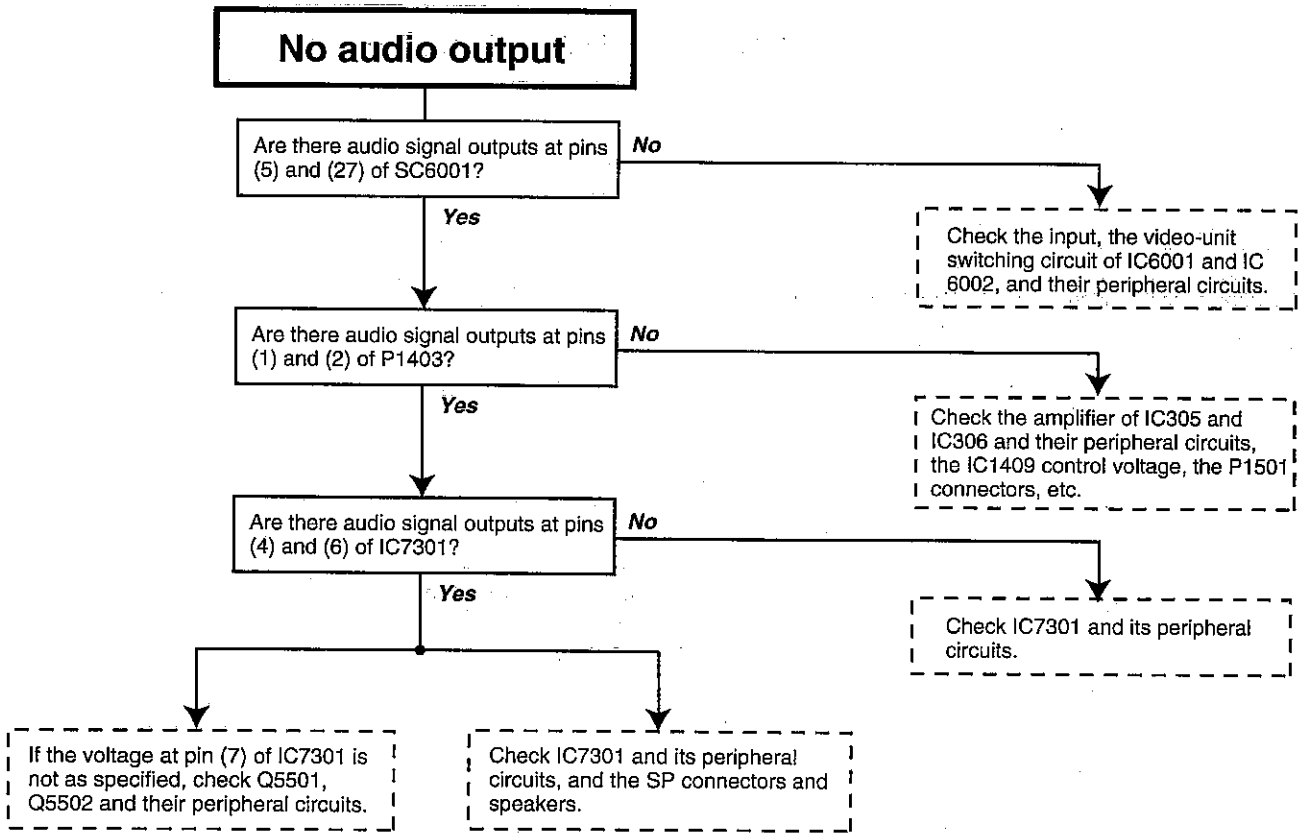
No or unusual vertical sync


Is there vertical sync pulse output at pin (4) of IC801?
No
Yes
Check IC801 and its peripheral circuits.
Check IC604 and its peripheral circuits, and go to "Trouble shooting table for PC I/F unit".

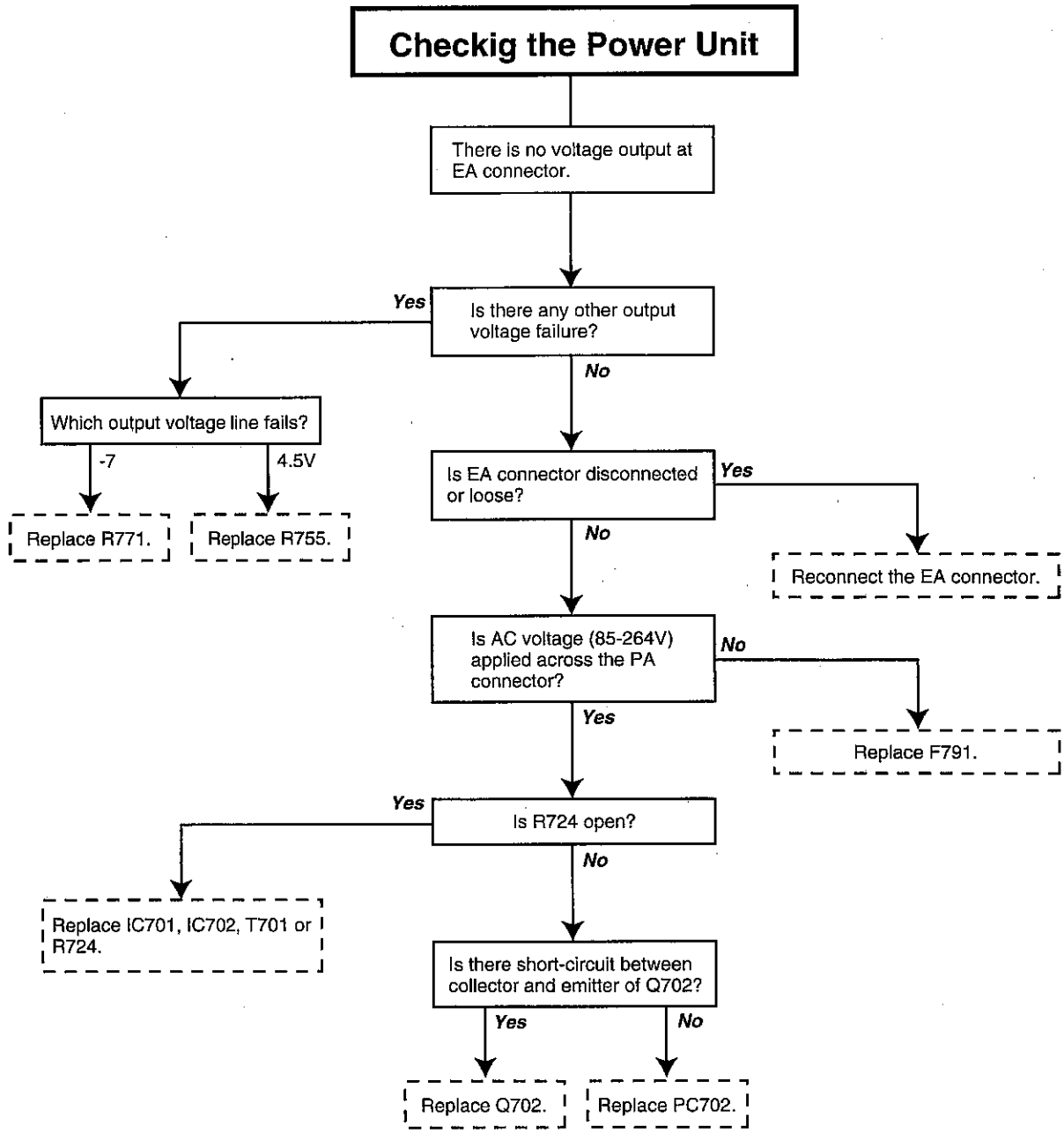
TROUBLE SHOOTING TABLE (Continued)


Checking the output PWB unit
Are there signal inputs at P1404, P1405, SC1501 and SC1502? Are voltages applied to EA connectors?
No
If there is no signal at SC1501 and SC1502, go to the video system block.
If there is no signal at P1404 and P1405, go to "Trouble shooting table for PC I/F unit".
No
If there is no signal at EA connector, go to "Checking the power unit block.
Yes
Are there signal outputs at pins (30) and (40) of IC1109, IC1209 and IC1309?
No
Check IC1109, IC1209, IC1309 and their peripheral circuits.
Yes
Are there signal inputs at pin (16) of IC1111, IC1211 and IC1311?
No
Check the switching circuit of IC1104, IC1204, IC1304 and their peripheral circuits, as well as the amplifier circuit of IC1102, IC1202 and IC1302 and their peripheral circuits.
Yes
Are there signal outputs at pins (23), (25), (27), (33), (35) and (37) of IC1111, IC1211 and IC1311?
No
Check the input and output signals at IC1106, IC1206 and IC1306. Check also IC1111, IC1211, IC1311 and their peripheral circuits.
Yes
Are there signal inputs at SC1101, SC1201 and SC1301?
No
If there is no signal input at pins (1) and (24) of SC1101, SC1201 and SC1301, check the switching circuit and amplifier circuit of IC1113, IC1213 and IC1313, and their peripheral circuits.
No
If there is no signal input at pins (8) and (23) of SC1101, SC1201 and SC1301, check IC5509 and their peripheral circuits.
Yes
Is the R.G.B. panel signal fed?
No
Check the circuit of R.G.B. panel before feeding.
Yes
Check the R.G.B. panel.
No
Check IC1406, IC1408 and their peripheral circuits.

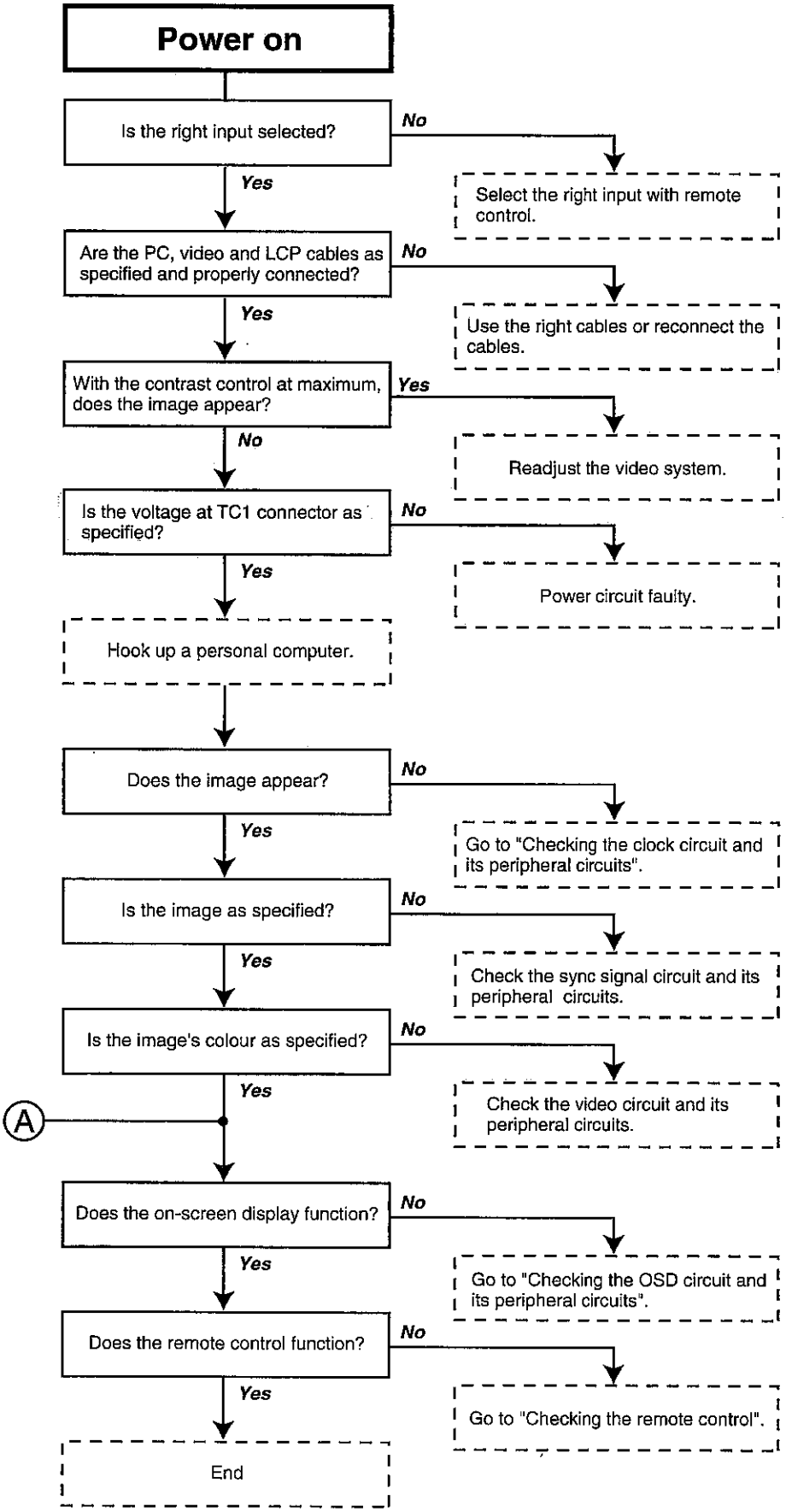
TROUBLE SHOOTING TABLE (Continued)


No audio output
Are there audio signal outputs at pins (5) and (27) of SC6001?
No
Yes
Check the input, the video-unit switching circuit of IC6001 and IC 6002, and their peripheral circuits.
Are there audio signal outputs at pins (1) and (2) of P1403?
No
Yes
Check the amplifier of IC305 and IC306 and their peripheral circuits, the IC1409 control voltage, the P1501 connectors, etc.
Are there audio signal outputs at pins (4) and (6) of IC7301?
No
Yes
Check IC7301 and its peripheral circuits.
If the voltage at pin (7) of IC7301 is not as specified, check Q5501, Q5502 and their peripheral circuits.
Check IC7301 and its peripheral circuits, and the SP connectors and speakers.

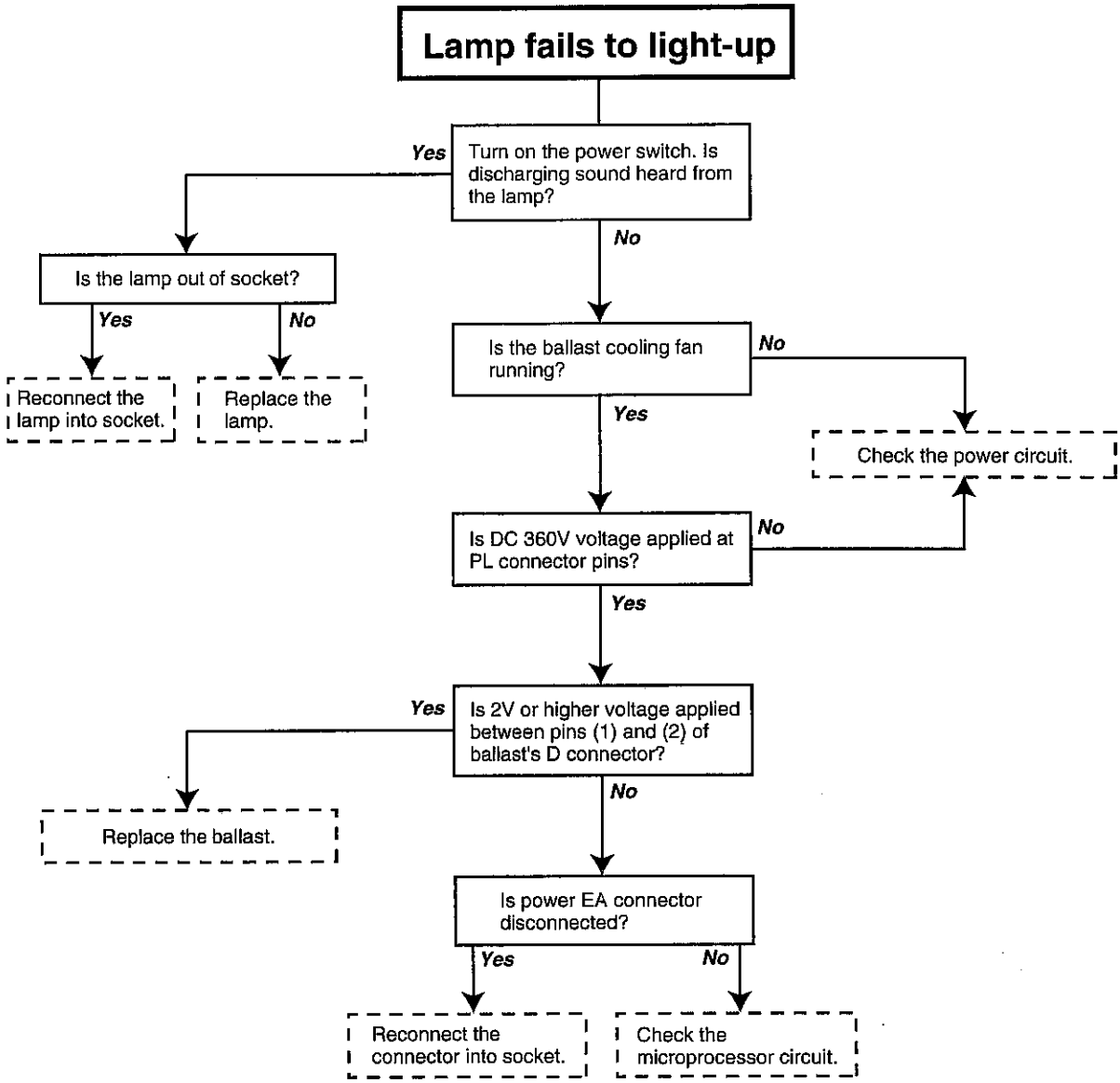
TROUBLE SHOOTING TABLE (Continued)



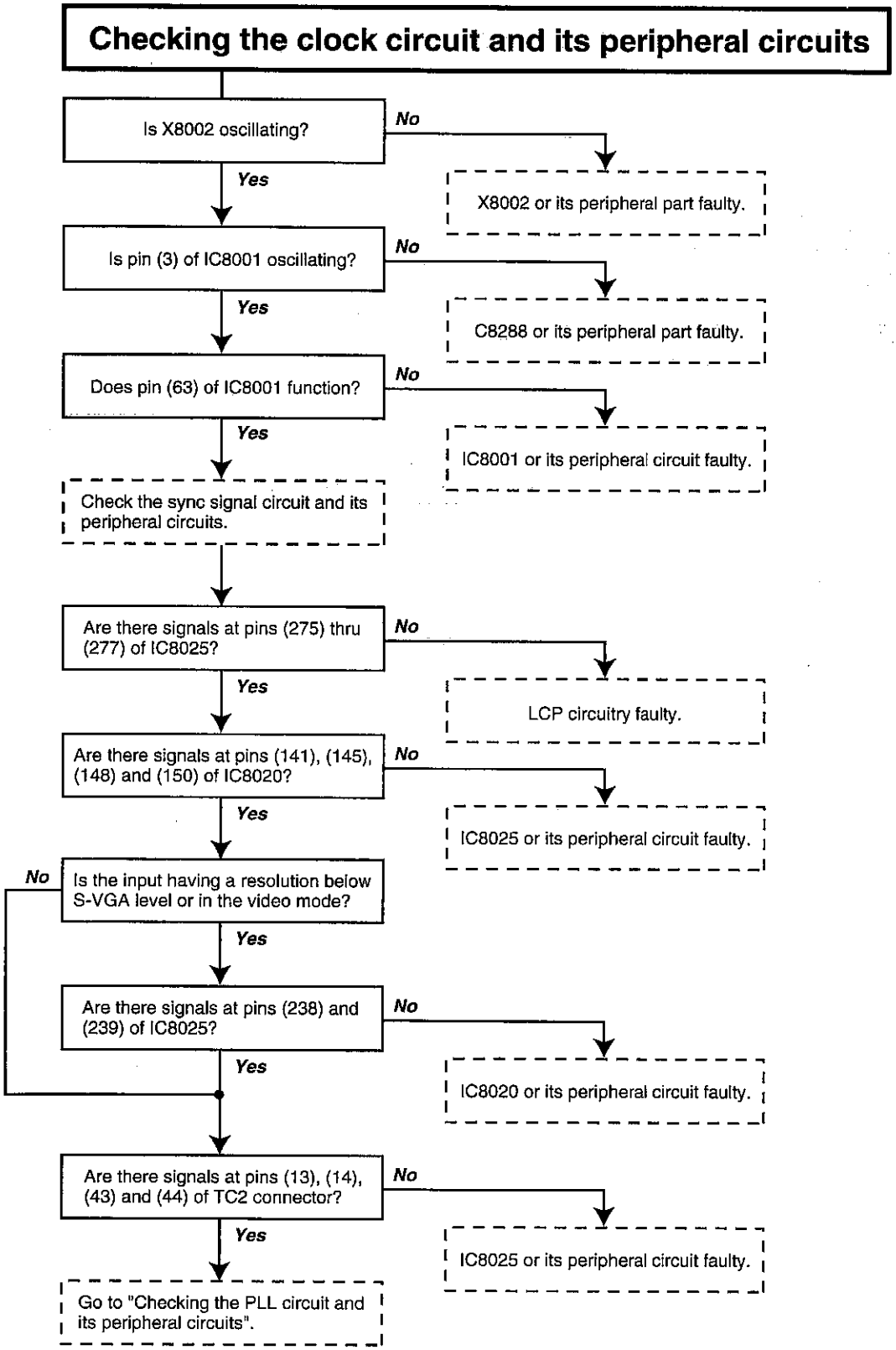
TROUBLE SHOOTING TABLE (Continued)



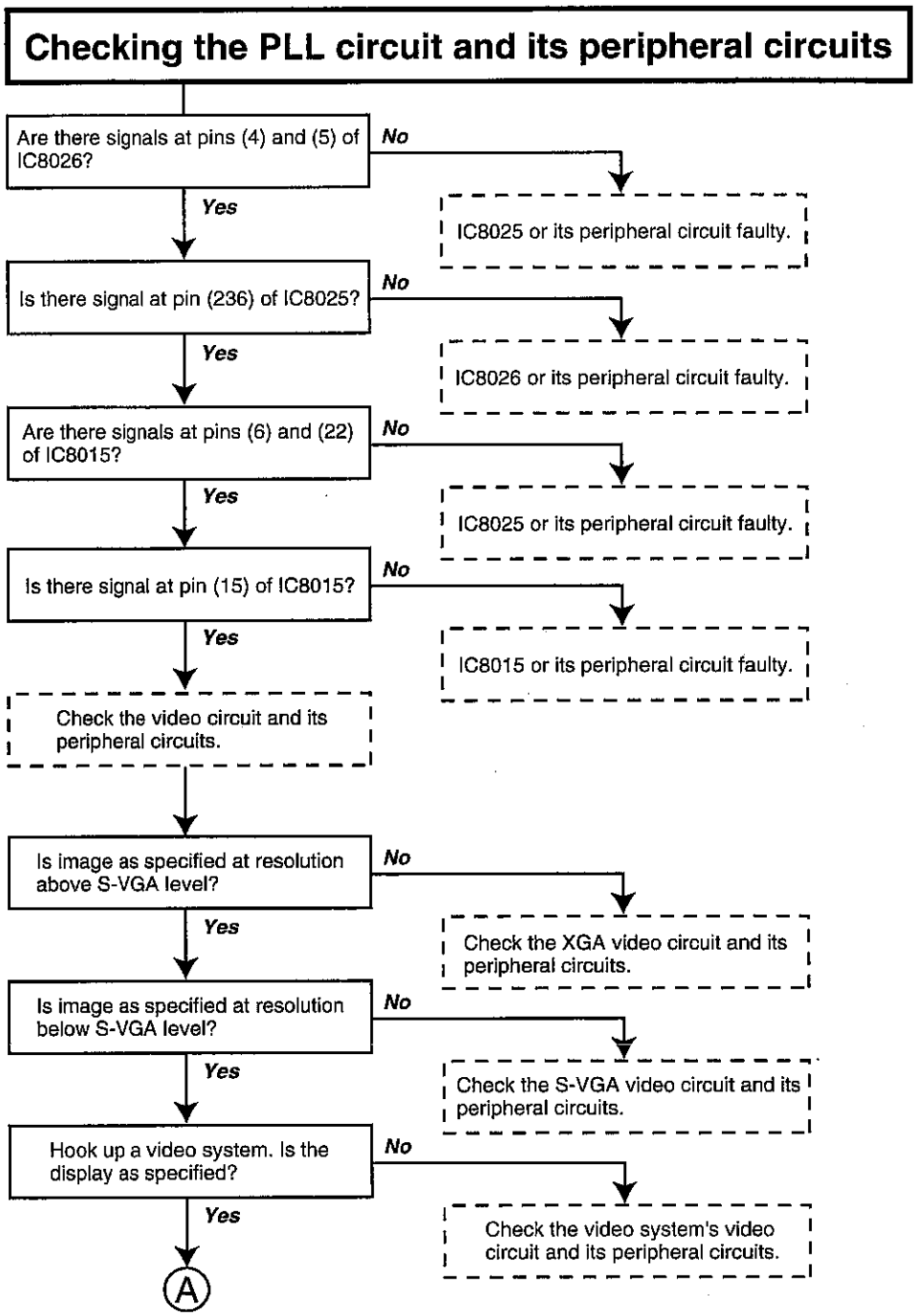
TROUBLE SHOOTING TABLE (Continued)



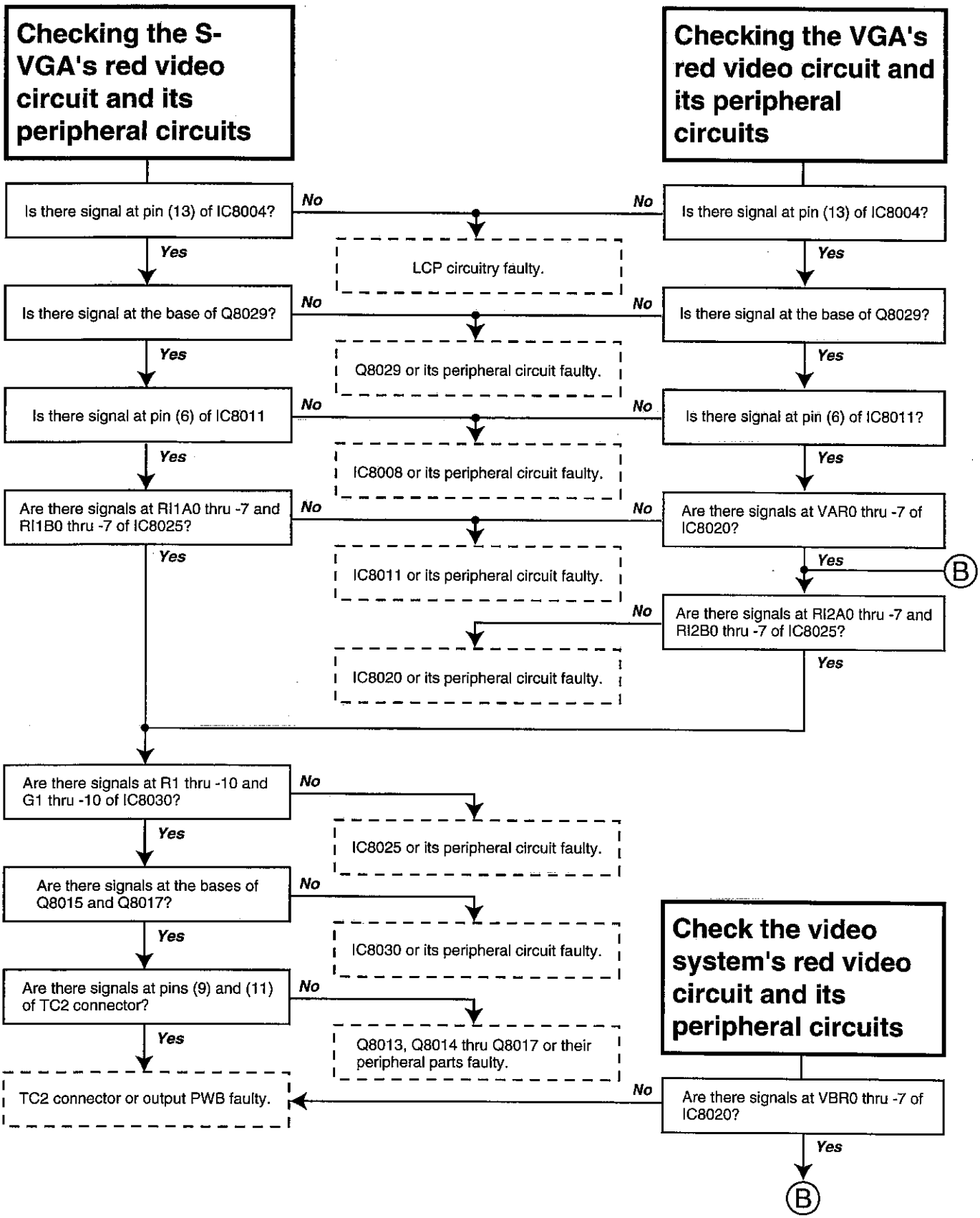
TROUBLE SHOOTING TABLE FOR PC I/F UNIT-1


Checking the clock circuit and its peripheral circuits
Is X8002 oscillating?
No
X8002 or its peripheral part faulty.
Yes
Is pin (3) of IC8001 oscillating?
No
C8288 or its peripheral part faulty.
Yes
Does pin (63) of IC8001 function?
No
IC8001 or its peripheral circuit faulty.
Yes
Check the sync signal circuit and its peripheral circuits.
Are there signals at pins (275) thru (277) of IC8025?
No
LCP circuitry faulty.
Yes
Are there signals at pins (141), (145), (148) and (150) of IC8020?
No
IC8025 or its peripheral circuit faulty.
Yes
No
Is the input having a resolution below S-VGA level or in the video mode?
Yes
Are there signals at pins (238) and (239) of IC8025?
No
IC8020 or its peripheral circuit faulty.
Yes
Are there signals at pins (13), (14), (43) and (44) of TC2 connector?
No
IC8025 or its peripheral circuit faulty.
Yes
Go to "Checking the PLL circuit and its peripheral circuits".

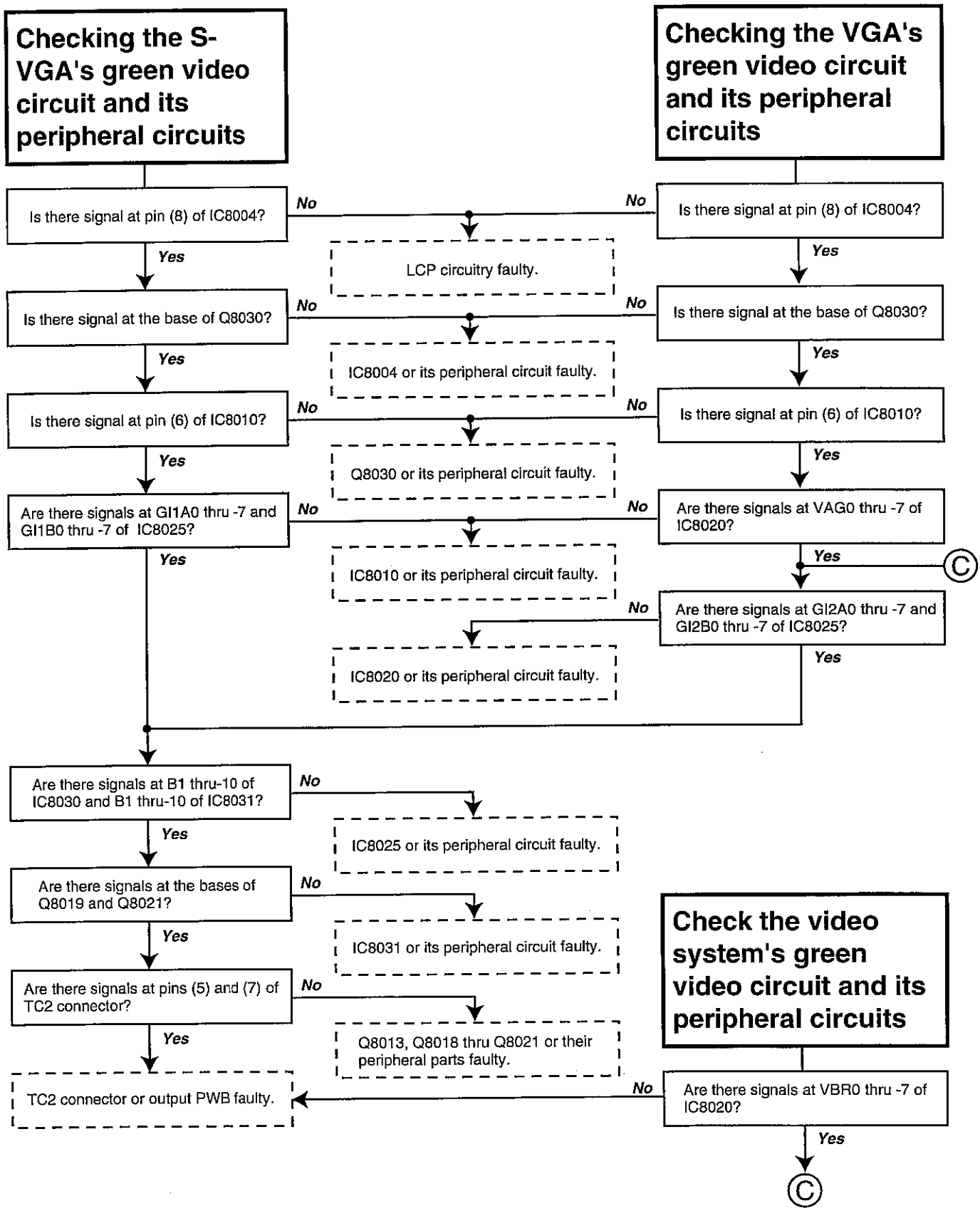
TROUBLE SHOOTING TABLE FOR PC I/F UNIT-2


Checking the PLL circuit and its peripheral circuits
Are there signals at pins (4) and (5) of IC8026?
No
IC8025 or its peripheral circuit faulty.
Yes
Is there signal at pin (236) of IC8025?
No
IC8026 or its peripheral circuit faulty.
Yes
Are there signals at pins (6) and (22) of IC8015?
No
IC8025 or its peripheral circuit faulty.
Yes
Is there signal at pin (15) of IC8015?
No
IC8015 or its peripheral circuit faulty.
Yes
Check the video circuit and its peripheral circuits.
Is image as specified at resolution above S-VGA level?
No
Check the XGA video circuit and its peripheral circuits.
Yes
Is image as specified at resolution below S-VGA level?
No
Check the S-VGA video circuit and its peripheral circuits.
Yes
Hook up a video system. Is the display as specified?
No
Check the video system's video circuit and its peripheral circuits.
Yes
A

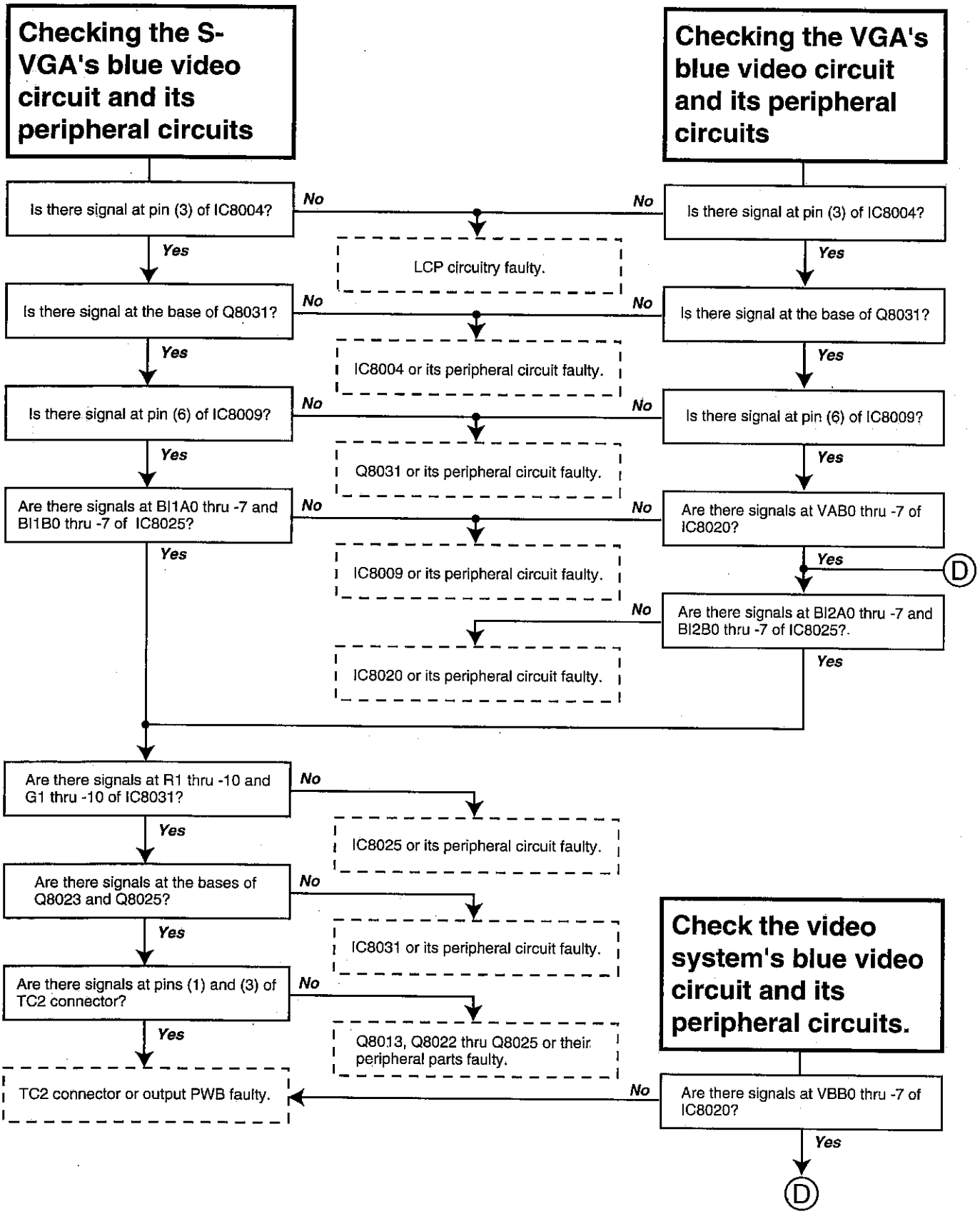
TROUBLE SHOOTING TABLE FOR PC I/F UNIT-3


Checking the S-VGA's red video circuit and its peripheral circuits
Checking the VGA's red video circuit and its peripheral circuits
Is there signal at pin (13) of IC8004?
No
LCP circuitry faulty.
Yes
Is there signal at the base of Q8029?
Q8029 or its peripheral circuit faulty.
Is there signal at pin (6) of IC8011
IC8008 or its peripheral circuit faulty.
Are there signals at RI1A0 thru -7 and RI1B0 thru -7 of IC8025?
IC8011 or its peripheral circuit faulty.
Are there signals at VAR0 thru -7 of IC8020?
B
Are there signals at RI2A0 thru -7 and RI2B0 thru -7 of IC8025?
IC8020 or its peripheral circuit faulty.
Are there signals at R1 thru -10 and G1 thru -10 of IC8030?
IC8025 or its peripheral circuit faulty.
Are there signals at the bases of Q8015 and Q8017?
IC8030 or its peripheral circuit faulty.
Are there signals at pins (9) and (11) of TC2 connector?
Q8013, Q8014 thru Q8017 or their peripheral parts faulty.
TC2 connector or output PWB faulty.
Check the video system's red video circuit and its peripheral circuits
Are there signals at VBR0 thru -7 of IC8020?
B

TROUBLE SHOOTING TABLE FOR PC I/F UNIT-4

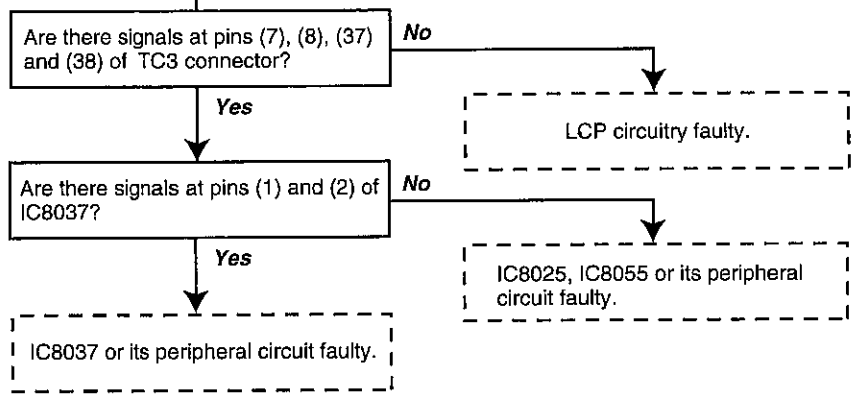

Checking the S-VGA's green video circuit and its peripheral circuits
Is there signal at pin (8) of IC8004?
No
LCP circuitry faulty.
Yes
Is there signal at the base of Q8030?
No
IC8004 or its peripheral circuit faulty.
Yes
Is there signal at pin (6) of IC8010?
No
Q8030 or its peripheral circuit faulty.
Yes
Are there signals at GI1A0 thru -7 and GI1B0 thru -7 of IC8025?
No
IC8010 or its peripheral circuit faulty.
Yes
Are there signals at B1 thru-10 of IC8030 and B1 thru-10 of IC8031?
No
IC8025 or its peripheral circuit faulty.
Yes
Are there signals at the bases of Q8019 and Q8021?
No
IC8031 or its peripheral circuit faulty.
Yes
Are there signals at pins (5) and (7) of TC2 connector?
No
Q8013, Q8018 thru Q8021 or their peripheral parts faulty.
Yes
TC2 connector or output PWB faulty.
Checking the VGA's green video circuit and its peripheral circuits
Is there signal at pin (8) of IC8004?
No
Yes
Is there signal at the base of Q8030?
No
Yes
Is there signal at pin (6) of IC8010?
No
Yes
Are there signals at VAG0 thru -7 of IC8020?
No
Yes
Ⓒ
Are there signals at GI2A0 thru -7 and GI2B0 thru -7 of IC8025?
No
IC8020 or its peripheral circuit faulty.
Yes
Check the video system's green video circuit and its peripheral circuits
Are there signals at VBR0 thru -7 of IC8020?
No
Yes
Ⓒ

TROUBLE SHOOTING TABLE FOR PC I/F UNIT-5

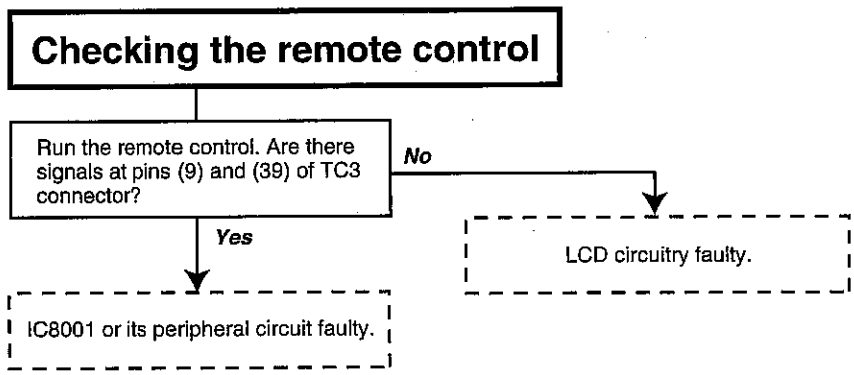

Checking the S-VGA's blue video circuit and its peripheral circuits
Is there signal at pin (3) of IC8004?
No
LCP circuitry faulty.
Yes
Is there signal at the base of Q8031?
No
IC8004 or its peripheral circuit faulty.
Yes
Is there signal at pin (6) of IC8009?
No
Q8031 or its peripheral circuit faulty.
Yes
Are there signals at BI1A0 thru -7 and BI1B0 thru -7 of IC8025?
No
IC8009 or its peripheral circuit faulty.
Yes
Are there signals at R1 thru -10 and G1 thru -10 of IC8031?
No
IC8025 or its peripheral circuit faulty.
Yes
Are there signals at the bases of Q8023 and Q8025?
No
IC8031 or its peripheral circuit faulty.
Yes
Are there signals at pins (1) and (3) of TC2 connector?
No
Q8013, Q8022 thru Q8025 or their peripheral parts faulty.
Yes
TC2 connector or output PWB faulty.
Checking the VGA's blue video circuit and its peripheral circuits
Is there signal at pin (3) of IC8004?
No
Yes
Is there signal at the base of Q8031?
No
Yes
Is there signal at pin (6) of IC8009?
No
Yes
Are there signals at VAB0 thru -7 of IC8020?
No
Yes
D
Are there signals at BI2A0 thru -7 and BI2B0 thru -7 of IC8025?.
No
Yes
IC8020 or its peripheral circuit faulty.
Check the video system's blue video circuit and its peripheral circuits.
Are there signals at VBB0 thru -7 of IC8020?
No
Yes
D

TROUBLE SHOOTING TABLE FOR PC I/F UNIT-6

Checking the OSD circuit and its peripheral circuits


Are there signals at pins (7), (8), (37) and (38) of TC3 connector?
No
LCP circuitry faulty.
Yes
Are there signals at pins (1) and (2) of IC8037?
No
IC8025, IC8055 or its peripheral circuit faulty.
Yes
IC8037 or its peripheral circuit faulty.

Checking the remote control


Run the remote control. Are there signals at pins (9) and (39) of TC3 connector?
No
LCD circuitry faulty.
Yes
IC8001 or its peripheral circuit faulty.

HINWEIS FÜR DAS WARTUNGSPERSONAL

ACHTUNG: UV-STRAHLUNG

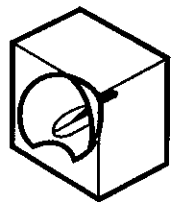
Die Lichtquelle im LCD-Projektor, eine Metall-Halogen-Lampe, gibt eine geringe UV-Strahlung ab.

DIREKTE BESTRAHLUNG AUF AUGEN UND HAUT MUSS VERMIEDEN WERDEN.

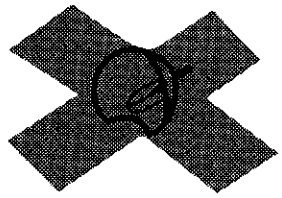
Zur Gewährleistung der Sicherheit muß folgendes beachtet werden:

1. Bei Arbeiten am Projektor bei eingeschalteter Lampe und abgenommenem oberen Gehäuse muß unbedingt eine Sonnenbrille getragen werden.

2. Die Lampe darf nicht außerhalb des Lampengehäuses eingeschaltet werden.



3. Betrieb für länger als 2 Stunden bei abgenommenem Gehäuse ist nicht zulässig.



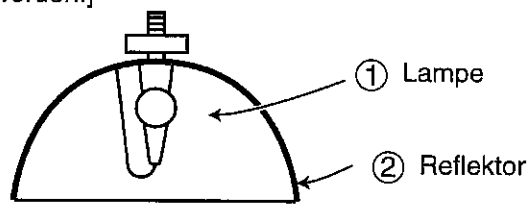
Zur Beachtung bei UV-Strahlung und Mitteldruck-Lampen

1. Vor dem Auswechseln der Lampe muß der Netzstecker gezogen werden.
2. Vor Durchführung von Wartungsarbeiten muß das Gerät eine Stunde abkühlen.
3. Nur mit dem gleichen Lampentyp ersetzen. Typ CLMPF0056CE01 oder BQC-XGNV6XE/1; Nennleistung 65 V / 150 W).
4. Die Lampe gibt eine geringe UV-Strahlung ab, daher muß direkter Augenkontakt vermieden werden.
5. Die Mitteldruck-Lampe weist ein Explosionsrisiko auf. Daher müssen die nachstehenden Installationsanweisungen beachtet werden, und die Lampe muß vorsichtig behandelt werden.

■ Auswechseln der Lampe

Hinweis:

Da die Lampe während des Betriebs sehr heiß wird, sollte die Lampe erst ausgewechselt werden, nachdem das Gerät mindestens eine Stunde ausgeschaltet war, damit die Lampe ausreichend abkühlen kann.
Beim Installieren der neuen Lampe muß darauf geachtet werden, die Lampe selbst (Glaskolben) nicht zu berühren. Vielmehr muß die Lampe am Reflektor ② gehalten werden.
[Es darf nur ein Original-Ersatzteil verwendet werden.]



GEFAHR! — Niemals die Spannungsversorgung einschalten, ohne daß eine Lampe vorhanden ist, um elektrische Schläge und Schäden am Gerät zu vermeiden, da der Stabilisator anfangs hohe Spannungen erzeugt.

Da eine geringe UV-Strahlung aus einer Öffnung zwischen der Schachtabdeckung und dem Lampengehäuse austritt, sollte der Objektivdeckel bei Wartungsarbeiten auf die Öffnung gesetzt werden, um die Bestrahlung von Augen und Haut zu vermeiden (**Abb. 1**).

Hinweis: Besorgen Sie sich einen Objektivdeckel, bevor Sie Arbeiten an einem Modelle XG-NV21SE/SM/SA durchführen, das keinen Objektivdeckel aufweist.

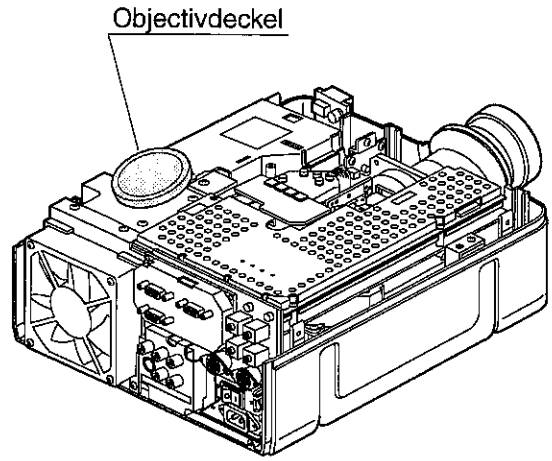


Abbildung 1.

Technische Daten

Produkttyp	LCD-Projekor
Modell	XG-NV21SE/SM/SA
Videosystem	PAL/SECAM/NTSC 3.58/NTSC 4.43
Wiedergabeverfahren	LCD-Projektionspanel ×3, optisches RGB-Verschlußverfahren
LCD-Projektionspanel	Panelgröße: 33,3 mm (1,3") (19,8 mm [H] × 26,4 mm [B]) Wiedergabe-Verfahren: Durchlässiges TN-Flüssigkristall-Panel Treiberverfahren: TFT (Dünnfilmtransistor) Aktivmatrix-Panel Anzahl der Bildpunkte: 485.616 Bildpunkte (804 [H] × 604 [V])
Objektiv	1–1,6 Zoomobjektiv, F2,5 bis 3,6, f = 47 bis 76 mm
Projektionslampe	150 W UHP-Lampe
Kontrastverhältnis	200:1
Videoeingangssignal	RCA-Anschluß: VIDEO, zusammengesetztes Video, 1,0 Vs-s negatives Sync.-Signal, 75 Ω terminiert RCA-Anschluß: AUDIO, 0,5 Vrms mehr als 22 kΩ (Stereo)
S-Videoeingangssignal	4-Pin Mini-DIN-Steckanschluß Y (Luminanz-Signal): 1,0 Vs-s, negatives Sync.-Signal, 75 Ω terminiert C (Chrominanz-Signal): Impuls 0,286 Vs-s, 75 Ω terminiert
Horizontale Auflösung	580 Fernsehzeilen (Videoeingang)
Audioausgang	2 W + 2 W (Stereo)
RGB-Computereingangssignal	*Videosignal:* 15-Pin Mini-D-Sub Steckanschluss (RGB 1, 2): Getrennter analoger RGB-Signaleingang: 0–0,7 Vp-p, positiv, 75 Ω terminiert Stereo-Minibuchse: AUDIO, 0,5 Vrms, mehr als 22 kΩ (Stereo) Horizontales Sync.-Signal: TTL-Pegelsignal (positiv oder negativ) oder gemischtes Sync.-Signal (nur Macintosh) Vertikales Sync.-Signal: Wie oben

Computer-Steuerungskabel (mitgeliefert)	
RS-232C-Eingangs-Anschluß	9-Pin D-Sub Stecker für die Bedienung des Computers
Maus-Eingangs-Anschluß (für IBM/Mac)	9-Pin D-Sub-Buchse für die drahtlose Maus
Maus-Eingangs-Anschluß (für PC98)	9-Pin Mini-DIN Steckverbindung für die drahtlose Maus

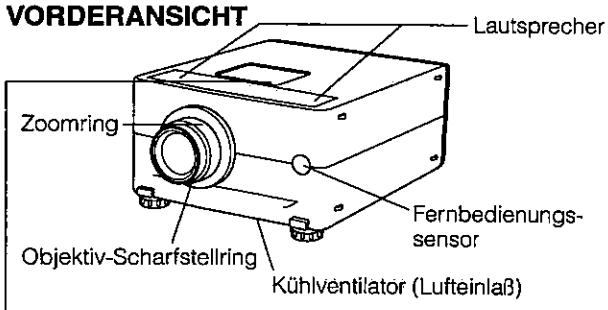
Lautsprechersystem	7 × 4 cm (2,8" × 1,6") oval × 2
Nennspannung	Wechselstromspannung 110–120/200–240 V
Nennfrequenz	50/60 Hz
Nennaufnahme	250 W
Betriebstemperatur	+5°C bis +40°C
Lagertemperatur	−20°C bis +60°C
Gehäuse	Kunststoff
I/R-Trägerfrequenz	40 kHz
Wellenlänge des Laserzeiger der Fernbedienung	*Wellenlänge* 670 nm *Max. Ausgangsleistung* 1 mW Klasse II Lasergerät
Abmessungen (B × T × H)	261 × 329 × 155 mm (ausschließlich Objektiv)
Gewicht	6,6 kg
Mitgeliefertes Zubehör	Fernbedienung, Vier Batterien der Größe AA, Ersatz-Luftfilter, RGB-Signalkabel (3 m), Computer-Steuerungskabel (1 m), Maus-Steuerungskabel für IBM PS/2 (15 cm), Maus-Steuerungskabel für Macintosh (15 cm), Maus-Steuerungskabel (3 m), Computer-Audiokabel, Netzkabel, Objektivkappe (installiert)
Ersatzteile	Fernbedienung (RRMCG1415CESA:XG-NV21SE/SM), (RRMCG1437CESA: XG-NV21SA), Luftfilter (PFILD0080CEZZ), RGB-Signalkabel (QCNW-5050CEZZ), Computer-Steuerungskabel (CTANZ0711CE01), Maus-Steuerungskabel für IBM PS/2 (QCNW-4754CEZZ), Maus-Steuerungskabel für Macintosh (QCNW-4755CEZZ), Maus-Steuerungskabel (QCNW-4620CEZZ), Computer-Audiokabel (QCNW-4870CEZZ), Netzkabel

Dieser Projektor ist mit 3 LCD (Flüssigkristallanzeige)-Projektionspanels ausgestattet. Diese neuartigen Projektionspanels enthalten TFTs (Dünnfilmtransistoren) mit insgesamt 485.616 Bildpunkten (×RGB).
Bei allen technologisch fortschrittlichen, elektronischen Geräten, z. B. Großbild-Fernsehern, Videosystemen und/oder Videokameras, sind bestimmte Toleranzgrenzen für die Funktionen gegeben. Dieses Gerät hat einige inaktive, innerhalb akzeptierter Toleranzgrenzen liegende TFTs, die als beleuchtete oder als nicht aktive Punkte auf der Bildwand wiedergegeben werden. Dies hat keinen Einfluß auf die Bildqualität und die Lebensdauer des Gerätes.

Änderungen der technischen Daten ohne vorherige Ankündigung vorbehalten.

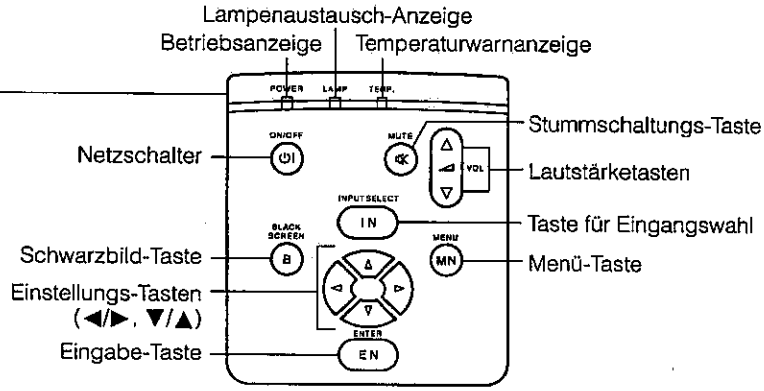
Lage der Bedienelemente

VORDERANSICHT

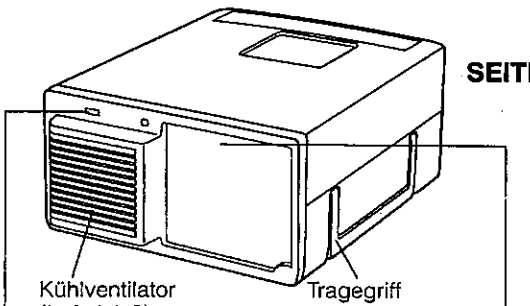


Vorsicht:
- Der Luftauslaß, die Abdeckung des Lampengehäuses und die Umgebung dieser Teile werden beim Betrieb des Projektors besonders heiß. Um Verletzungen zu vermeiden, sollten Sie diese Bereiche nicht berühren, bevor sie nicht ausreichend abgekühlt sind.
- Lassen Sie zwischen dem Kühlventilator (Luftauslaß) und der nächsten Wand bzw. dem nächsten Hindernis einen Zwischenraum von mindestens 10 cm.
- Falls der Kühlventilator blockiert wird, schaltet eine Schutzvorrichtung die Projektorlampe automatisch aus. Das ist normal und kein Störfall. Ziehen Sie den Netzstecker des Projektors ab und warten 10 Minuten. Stecken Sie dann den Netzstecker wieder ein. Der Projektor schaltet auf Normalbetrieb zurück.

BEDIENFELD AUF DER RÜCKSEITE DES PROJEKTORS

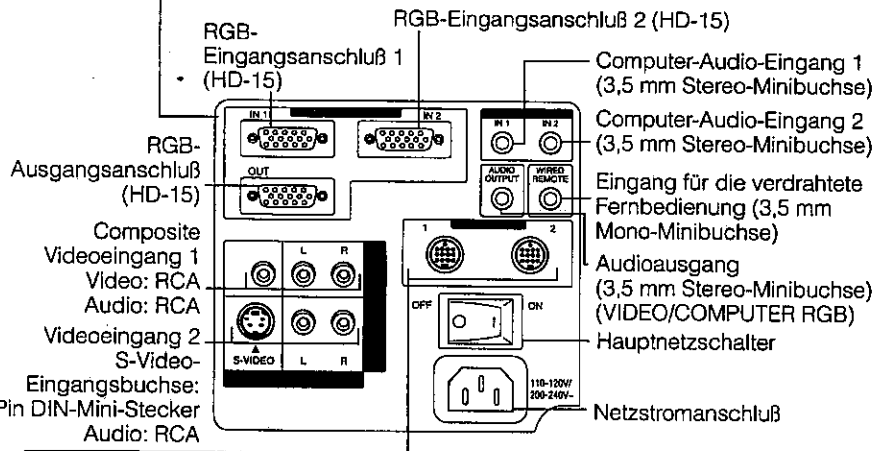


SEITEN- UND RÜCKANSICHT



Sicherheitssperre-Verankerung
Dieser Projektor ist mit einem Kensington Security Standard-Steckanschluß zur Verwendung mit einem Kensington MicroSaver Security-System ausgestattet. Siehe die Informationen des Systems für Anleitungen zur Verwendung der Sicherheitssperre mit diesem System.

Hinweis:
- Sicherstellen, daß das Computer-Steuerungskabel beim Anschluß an die PC CONTROL-Anschlüsse verwendet wird.



- PC CONTROL 1:
  Das mitgelieferte Computer-Steuerungskabel bei der Verwendung der Fernbedienung als drahtlose Maus benutzen oder wenn der Projektor über den RS-232C-Anschluß gesteuert wird.
- PC CONTROL 2:
  Das Computer-Steuerungskabel (CTANZ0711CE01) (gesondert erhältlich) bei der Verwendung der Fernbedienung als kabellose Maus verwenden.

Hinweise:
- Die RS-232C-Funktion kann jedoch nicht bei Anschluß an PC CONTROL 2 verwendet werden.

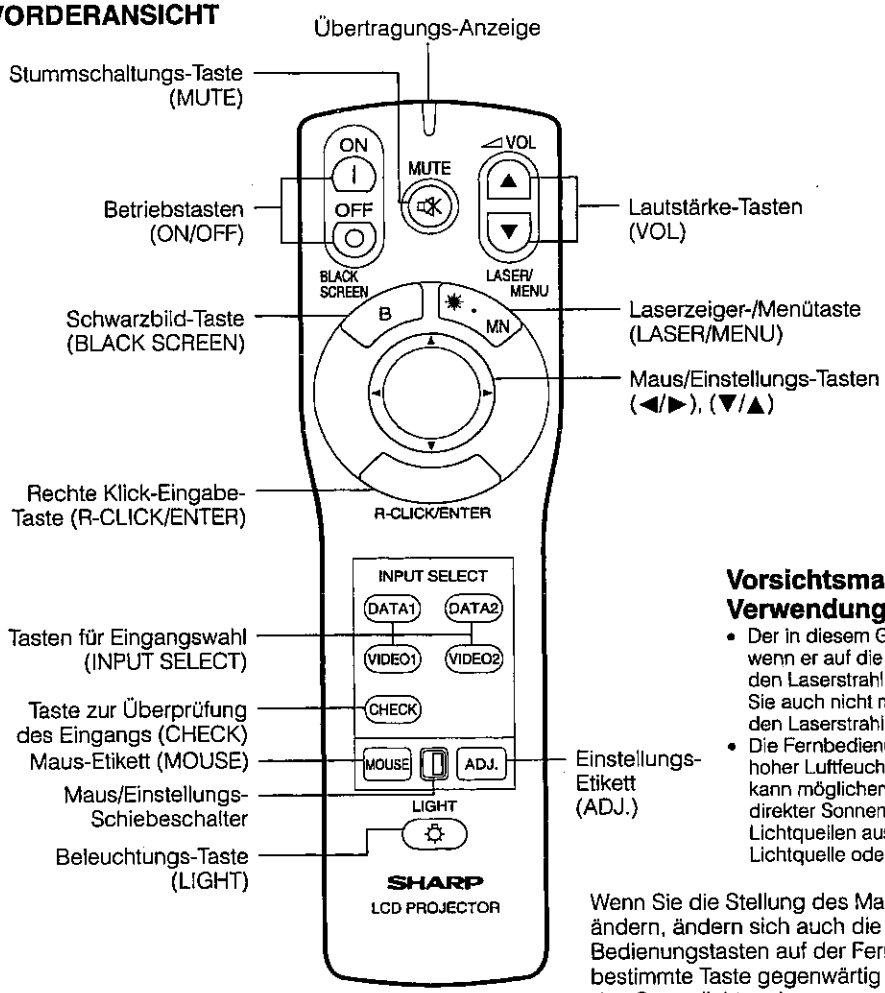
Betrieb mit der drahtlosen Maus-Fernbedienung

Die Funktionen der Maus des Personal Computers wurden in die Fernbedienung eingebaut; auf diese Weise kann der Projektor und der Personal Computer mit der Fernbedienung bedient werden.

1. Schalten Sie den Hauptnetzschalter an der Rückseite des Gerätes ein.
2. Drücken Sie die Betriebstaste ON auf dem Bedienfeld der Fernbedienung, um das Gerät einzuschalten.
3. Wenn die Fernbedienung als drahtlose Maus verwendet werden soll, den Maus/Einstellungs-Schiebeschalter auf MAUS (MOUSE) schieben. Wenn die Fernbedienung zum Betrieb des Projektors verwendet soll, den Maus/Einstellungs-Schiebeschalter auf EINST (ADJ.) schieben. Um die Gegenlicht-Funktion der Fernbedienung zu verwenden, die Beleuchtungs-Taste (LIGHT) auf der Fernbedienung drücken. Die Farben der Tasten ändern sich, wie in der Tabelle unten auf dieser Seite gezeigt.

Drahtlose Fernbedienung

VORDERANSICHT



SEITENANSICHT

Hinweis:

- Beim Transport der Fernbedienung den Hauptnetzschalter ausschalten, um zu verhindern, daß sich die Batterien entladen.

Vorsichtsmaßnahmen bei der Verwendung der Fernbedienung

- Der in diesem Gerät verwendete Laserstrahl ist harmlos, wenn er auf die Haut auftrifft; achten Sie aber darauf, den Laserstrahl nicht auf die Augen zu richten. Schauen Sie auch nicht mit Hilfe eines optischen Instruments in den Laserstrahl.
- Die Fernbedienung nicht Stößen, Flüssigkeiten oder hoher Luftfeuchtigkeit aussetzen. Die Fernbedienung kann möglicherweise nicht richtig funktionieren, wenn sie direkter Sonneneinstrahlung oder anderen starken Lichtquellen ausgesetzt ist. In diesem Fall sollte die Lichtquelle oder der LCD-Projektor verschoben werden.

Wenn Sie die Stellung des Maus/Einstellungs-Schiebeschalters ändern, ändern sich auch die Funktionen einiger Bedienungstasten auf der Fernbedienung. Welche Funktion eine bestimmte Taste gegenwärtig ausübt, können Sie an der Farbe des Gegenlichts erkennen.

Verwendung der Fernbedienung in einem dunklen Raum

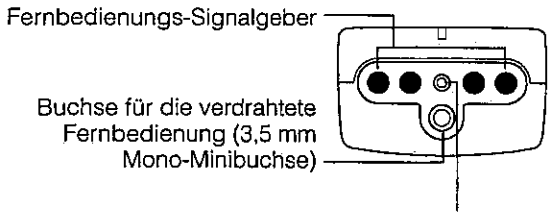
- Die Beleuchtungs-Taste (LIGHT) drücken, um die Bedienungstasten ca. 5 Sekunden lang zu beleuchten. Die Gegenlichtfarben sind in der Tabelle rechts erklärt.

Hinweis:

- Wenn der Hauptnetzschalter (MAIN POWER) auf der Fernbedienung ohne Betrieb des Gerätes 10 Minuten eingeschaltet gelassen bleibt, wird das Gerät automatisch ausgeschaltet. Zum erneuten Einschalten des Gerätes die Taste auf der Fernbedienung mindestens eine Sekunden lang drücken.

Tastenbezeichnung	Position des Maus/Einstellungs-Schiebeschalters	
	MOUSE	*ADJ.*
LASER/MENU	LASER (grün)	MENU (rot)
R-CLICK/ENTER	R-CLICK (grün)	ENTER (rot)
MOUSE/ADJ.	MOUSE (nicht beleuchtet)	ADJ. ◄/►, ▼/▲ (nicht beleuchtet)
L-CLICK	JA (nicht beleuchtet)	—
BLACK SCREEN	JA (rot)	
ON/OFF		
VOL		
MUTE		
DATE 1		
DATE 2		
VIDEO 1		
VIDEO 2		
CHECK		

ANSICHT VON OBEN


Fernbedienungs-Signalgeber
Buchse für die verdrahtete Fernbedienung (3,5 mm Mono-Minibuchse)
Laserlicht-Fenster
Das Laserlicht wird aus diesem Fenster ausgestrahlt.

LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT	RADIACION LASER NO MIRE AL RAYO PRODUCTO LASER CLASE 2
RAYONNEMENT LASER NE PAS REGARDER DANS LE FAISCEAU APPAREIL À LASER DE CLASSE 2	

Verwendung des als Sonderzubehör erhältlichen Kabels mit der Fernbedienung

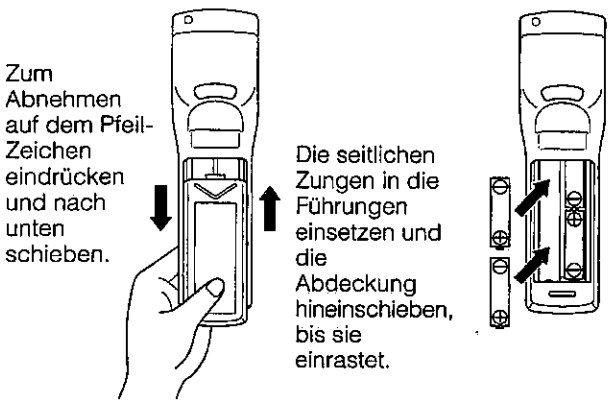
Wenn die Fernbedienung aufgrund des Abstandes oder des Aufstellungsortes des Projektors (Rückprojektion, usw.) nicht verwendet werden kann, sollte das zusätzliche Kabel am Fernbedienungs-Kabelanschluß der Fernbedienung und am Fernbedienungs-Kabelanschluß auf der Rückseite des Projektors angeschlossen werden.

Hinweis:

- Wenn das als Sonderzubehör gelieferte Kabel angeschlossen ist, ist der Signalgeber funktionslos.

Die Fernbedienung verfügt über einen Laserzeiger, der einen Laserstrahl der Klasse II durch das in der Abbildung gezeigte Laserlicht-Fenster emittiert. Schauen Sie nicht direkt in den Laserstrahl und richten Sie ihn auch nicht auf andere Personen. Die beiden Markierungszeichen links sind Warnaufkleber für den Laserstrahl. Verwenden Sie den Laserstrahl nur bei Temperaturen zwischen +5°C und +40°C.

RÜCKSEITE


Zum Abnehmen auf dem Pfeil-Zeichen eindrücken und nach unten schieben.
Die seitlichen Zungen in die Führungen einsetzen und die Abdeckung hineinschieben, bis sie einrastet.

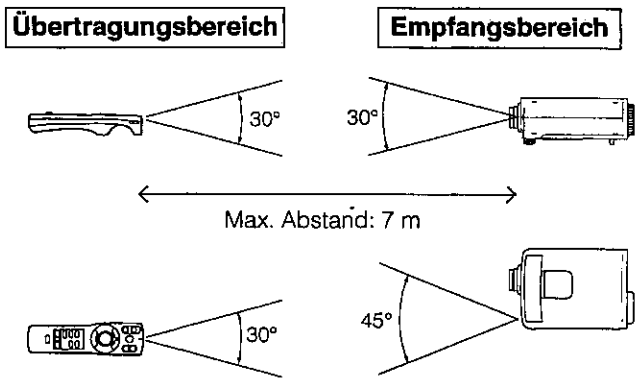
Einsetzen der Batterien

Die Batteriefachabdeckung wie gezeigt abnehmen, vier Batterien (Größe AA) einsetzen und sicherstellen, daß die Polarität den Markierungen (+) und (−) im Batteriefach entspricht.

Hinweise:

Eine falsche Verwendung kann die Batterien zum Auslaufen oder Explodieren bringen.

- Die Batterien unter Beachtung der (+) und (−) Pole wie gezeigt einsetzen.
- Die Batterien aus der Fernbedienung nehmen, wenn sie für längere Zeit nicht verwendet wird.
- Die Batterien immer sauber halten.
- Unterschiedliche Batteriearten nicht zusammen verwenden. Die Lebensdauer der neuen Batterien wird dadurch verkürzt, und die alten Batterien können auslaufen.
- Verbrauchte Batterien sollten sofort entnommen werden, um Auslaufen und Beschädigungen zu vermeiden. Ausgelaufene Batterieflüssigkeit kann zu Hautirritationen führen. Ausgelaufene Batterieflüssigkeit mit einem Tuch entfernen.
- Wegen unterschiedlicher Lagerbedingungen können die mitgelieferten Batterien früher als angegeben verbraucht sein. Verbrauchte Batterien sollten so schnell wie möglich durch neue ausgetauscht werden.



Positionierung der Fernbedienung

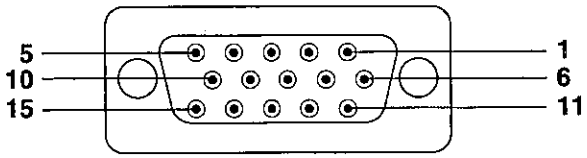
Die Fernbedienung wie links gezeigt verwenden.

Hinweis:

- Das Signal von der Fernbedienung kann für einen einfachen Betrieb von der Bildwand reflektiert werden. Jedoch kann der wirksame Abstand des Signals aufgrund des Bildwandmaterials Unterschiede aufweisen.

Pinbelegung

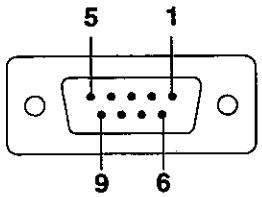
Analoger RGB 1- und 2-Signaleingang und analoger RGB-Ausgangsanschluß: 15-Pin Mini-D-Sub-Buchse



Computereingang
Analog

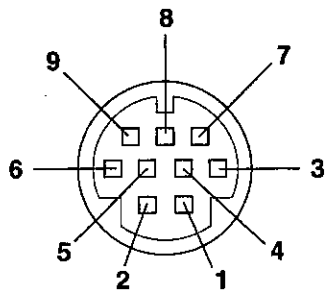
1. Videoeingang (rot)
2. Videoeingang (grün)
3. Videoeingang (blau)
4. Reserveeingang 1
5. Gemischtes Sync.-Signal (nur Mac)
6. Erdung (rot)
7. Erdung (grün)
8. Erdung (blau)
9. Nicht angeschlossen
10. MASSE
11. MASSE
12. Bi-direktionale Daten
13. Horizontales Sync.-Signal
14. Vertikales Sync.-Signal
15. Daten-Zeitgeber

Maus-Eingangs-Anschluß (für IBM/Mac): 9-Pin D-Sub-Buchse



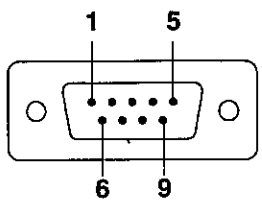
Pin Nr.	Signal	Name	I/O	Referenz
1	CD	Carrier Detect=Trägererfassung	Eingang	An internen Schaltkreis angeschlossen
2	RD	Receive Data=Daten empfangen	Eingang	An internen Schaltkreis angeschlossen
3	SD	Send Data=Daten senden	Ausgang	An internen Schaltkreis angeschlossen
4	ER	Equipment ready=Ausrüstung betriebsbereit	Ausgang	An internen Schaltkreis angeschlossen
5	SG	Signal Ground=Signalerdung		An internen Schaltkreis angeschlossen
6	DR	Data Set Ready=Datensatz bereit	Ausgang	Nicht angeschlossen
7	RS	Request to Send=Anforderung zum Senden	Ausgang	An internen Schaltkreis angeschlossen
8	CS	Clear to Send=Sendefreigabe	Eingang	An internen Schaltkreis angeschlossen
9	CI	Ring Indicator=Ring-Anzeige	Eingang	An internen Schaltkreis angeschlossen

Maus-Eingangs-Anschluß (für NEC PC98-Serie für Japan): 9-Pin Mini-DIN-Steckverbindung



Pin Nr.	Signal	I/O	Referenz
1	+5 V	Eingang	Computer-Ausgang
2	XA	Eingang	Computer-Ausgang
3	XB	Eingang	Computer-Ausgang
4	YA	Eingang	Computer-Ausgang
5	YB	Eingang	Computer-Ausgang
6	LINKS	Eingang	Computer-Ausgang
7	NC	Eingang	Nicht angeschlossen
8	RECHTS	Eingang	Computer-Ausgang
9	MASSE		Computer-Ausgang

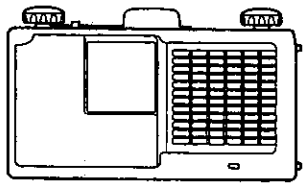
RS-232C-Anschluß: 9-Pin D-Sub-Stecker



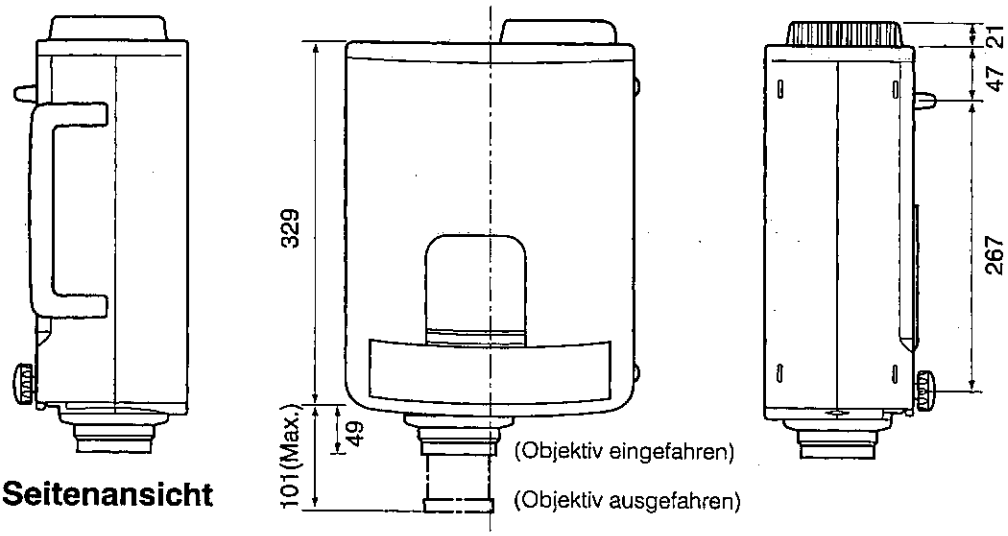
Pin Nr.	Signal	Name	I/O	Referenz
1	CD			Nicht angeschlossen
2	RD	Receive Data=Daten empfangen	Eingang	An internen Schaltkreis angeschlossen
3	SD	Send Data=Daten senden	Ausgang	An internen Schaltkreis angeschlossen
4	ER			Nicht angeschlossen
5	SG	Signal Ground=Signalerdung		An internen Schaltkreis angeschlossen
6	DR	Data Set Ready=Datensatz bereit	Ausgang	Nicht angeschlossen
7	RS	Request to Send=Anforderung zum Senden	Ausgang	An internen Schaltkreis angeschlossen
8	CS			Nicht angeschlossen
9	CI			Nicht angeschlossen

Abmessungen

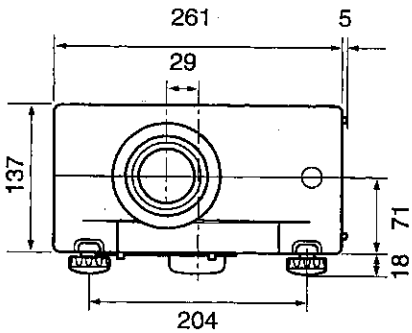
Ansicht der Rückseite



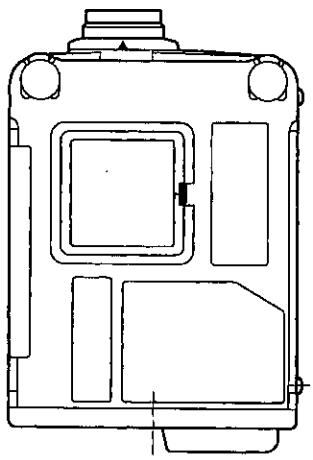
Ansicht von oben



Seitenansicht



Ansicht von vorne



Ansicht von hinten

[Einheit: mm]

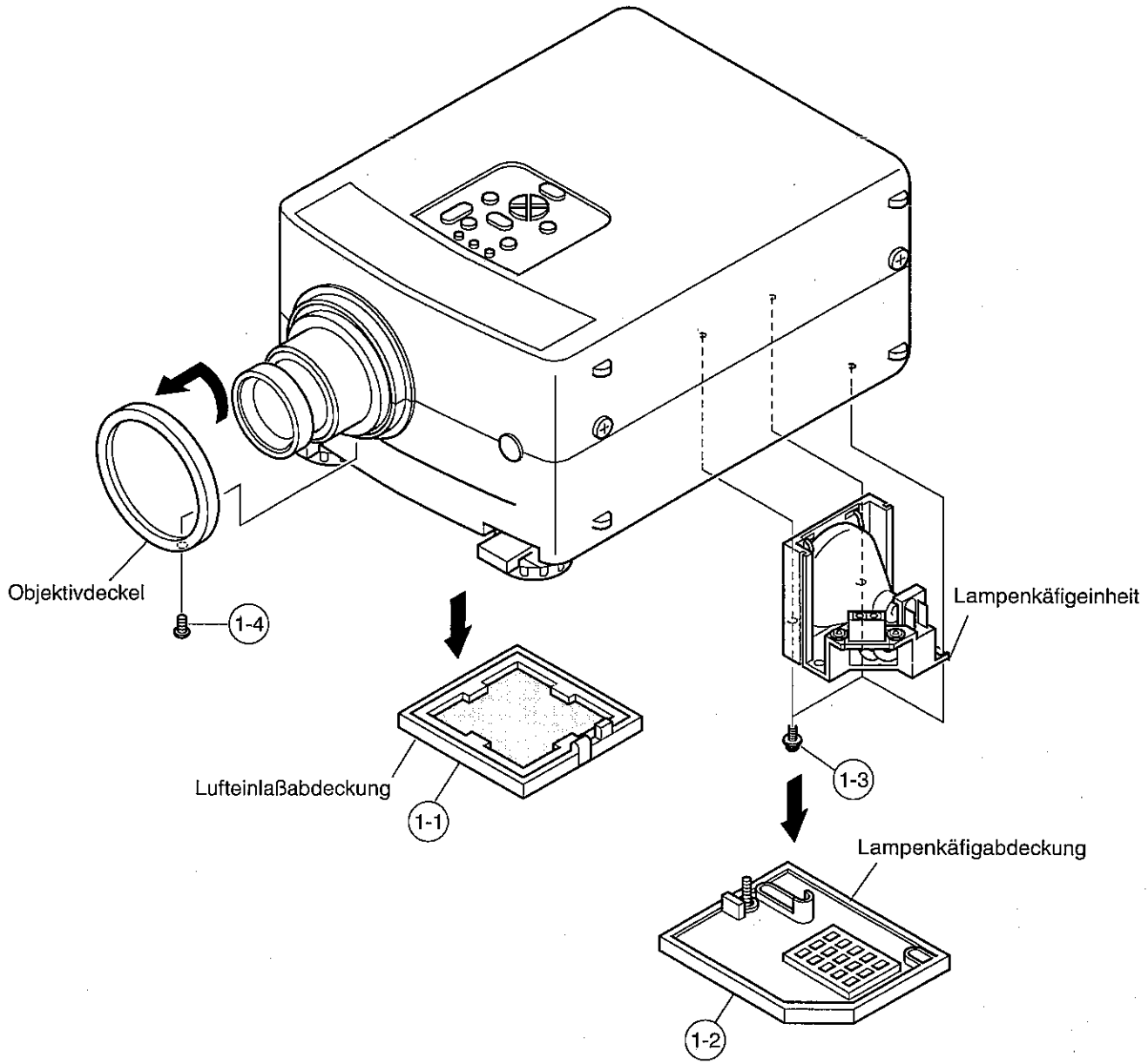
ENTFERNEN DER HAUPTTEILE

1. Entfernen der Lufteinlaßabdeckung, Lampeneinheit und des Objektivdeckels

1-1. Die Lufteinlaßabdeckung abnehmen.
1-2. Die Schraube von der Lampenkäfigeinheit losdrehen, dann die Lampenkäfigeinheit herausnehmen.
1-3. Die drei Schrauben von der Lampenkäfigeinheit losdrehen und die Lampenkäfigeinheit entfernen.
1-4. Die Arretierschraube vom Objektivdeckel losdrehen. Zum Abnehmen des Objektivdeckels ist diese im oder gegen den Uhrzeigersinn zu drehen.

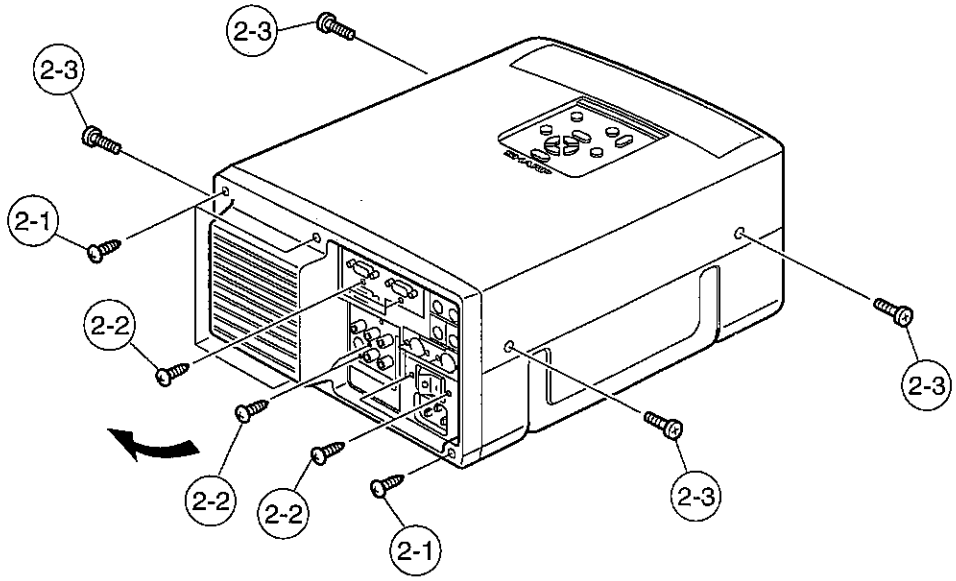
Hinweise:

- Vor den Auswechselarbeiten ist der Netzschalter des Projektors auszuschalten und sicherzustellen, daß das Kühlgebläse vollkommen zum Stillstand kommt.
- Die Lampe ist nach dem Betrieb immer noch heiß. Den Netzschalter ausschalten, den Netzstecker abziehen und wenigstens 1 Stunde mit dem Beginn der Arbeiten warten.
- Beim erneuten Einsetzen des Lampenkäfigs sicherstellen, daß sich der Stecker in der oberen Position befindet.

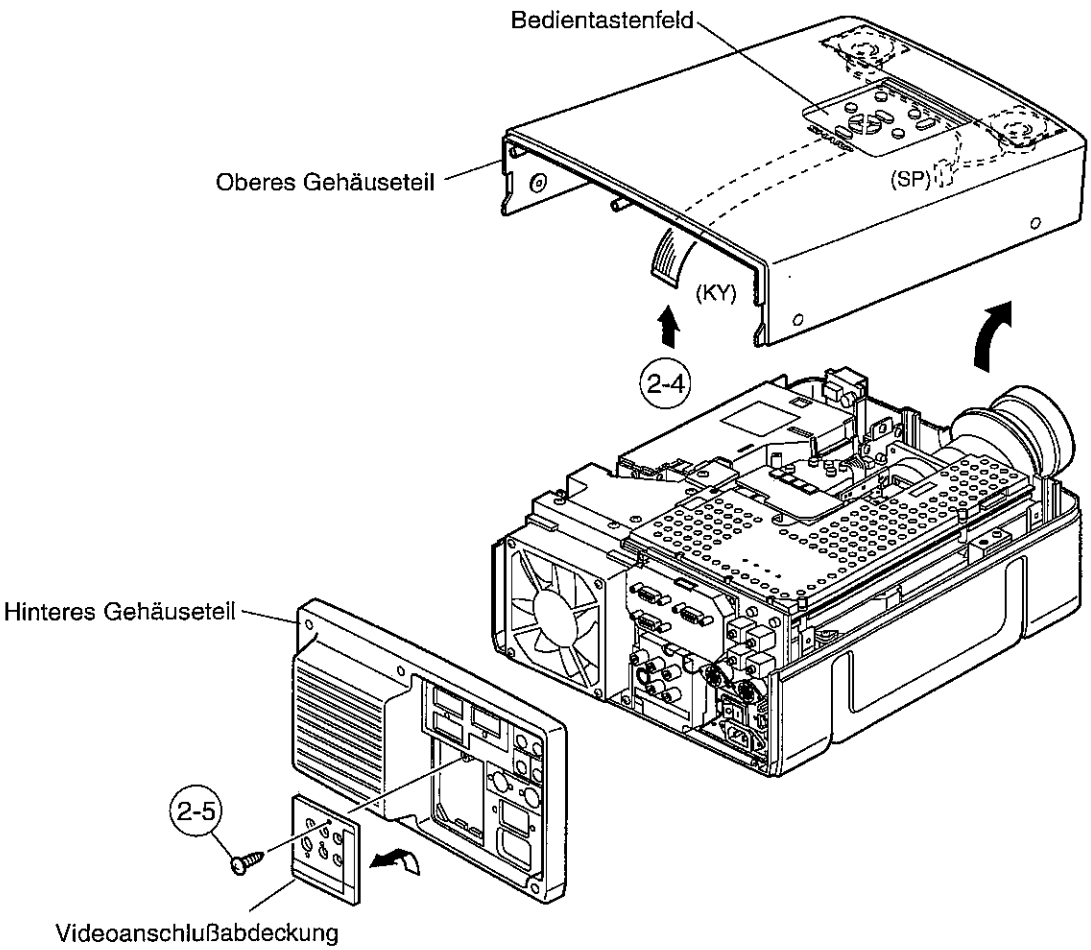


2. Entfernen des oberen und hinteren Gehäuseteils

2-1. Die fünf Schrauben vom hinteren Gehäuseteil losdrehen.
2-2. Die zehn Schrauben vom hinteren Gehäuseteil und der Anschlußplatte losdrehen. Zuerst das hintere Gehäuseteil entfernen, da dieses im Oberteil eingehakt ist.
2-3. Die vier Schrauben vom oberen Gehäuseteil losdrehen.

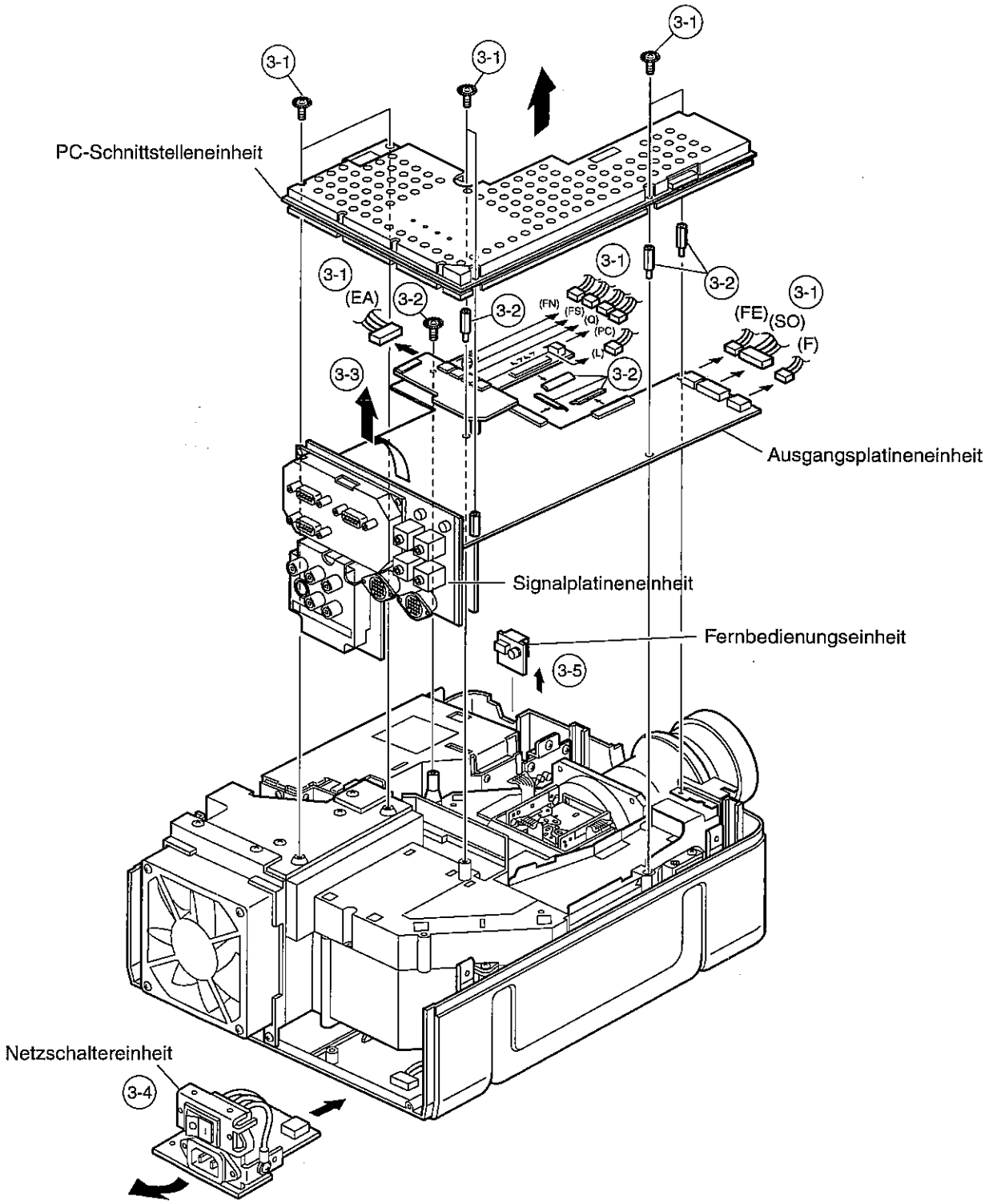


2-4. Während das Gehäuseunterteil an beiden Seiten (oben Mitte) hinuntergedrückt wird, die Enden des oberen Gehäuseteils herausziehen, um es auszuhaken. Nun die Rückseite des oberen Gehäuseteils anheben, den Platinen-Netzschalterstecker (KY) sowie die Lautsprecherstecker abziehen und schließlich das obere Gehäuseteil entfernen.
2-5. Die Schraube der Videoanschlußabdeckung losdrehen und die Abdeckung abnehmen.



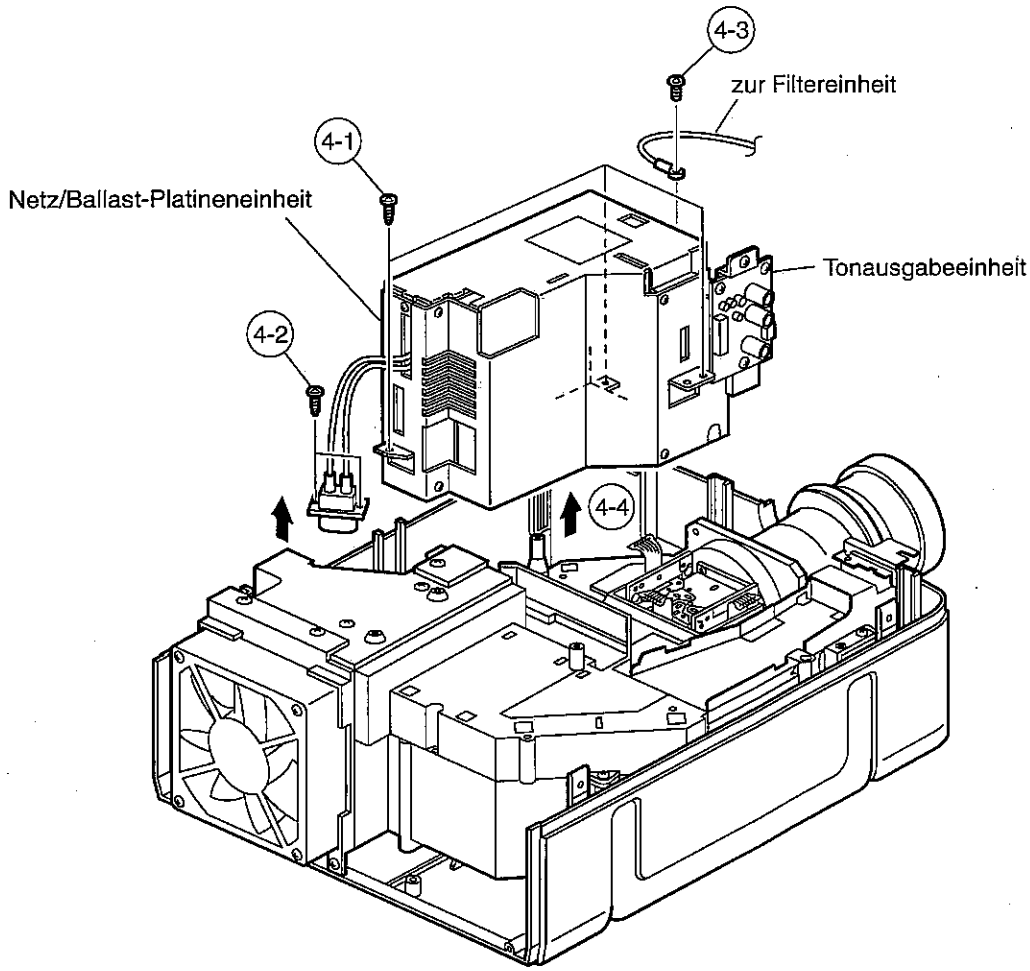
3. Entfernen der Platinen

3-1. Die sechs Schrauben von der PC-Schnittstelle der Platine losdrehen. Die Ausgangsplatinenstecker abziehen. PC-Schnittstellen-Platine von der Ausgangsplatineneinheit entfernen.
3-2. Die drei Distanzscheiben von der Ausgangsplatineneinheit entfernen. Die LCD-Flachkabel abziehen. Danach die Ausgangsplatineneinheit zusammen mit der sich darauf befindlichen Signalplatineneinheit nach oben ziehen und herausnehmen.
3-3. Die Ausgangsplatineneinheit um 90° nach oben klappen und dann aus der Platineneinheit herausziehen.
3-4. Die Vorderseite der Netzschalterplatine nach oben halten und die Platineneinheit herausziehen.
3-5. Schließlich die Fernbedienungsplatine abnehmen.



4. Entfernen der Netz/Ballast-Platine

4-1. Die drei Schrauben der Netz/Ballast-Platineneinheit losdrehen.
4-2. Die beiden Schrauben vom Lampenfassungshalter losdrehen, dann den Halter entfernen.
4-3. Das Erdungskabel von der Filterplatine abziehen.
4-4. Die Netz/Ballast-Platineneinheit anheben und herausziehen.

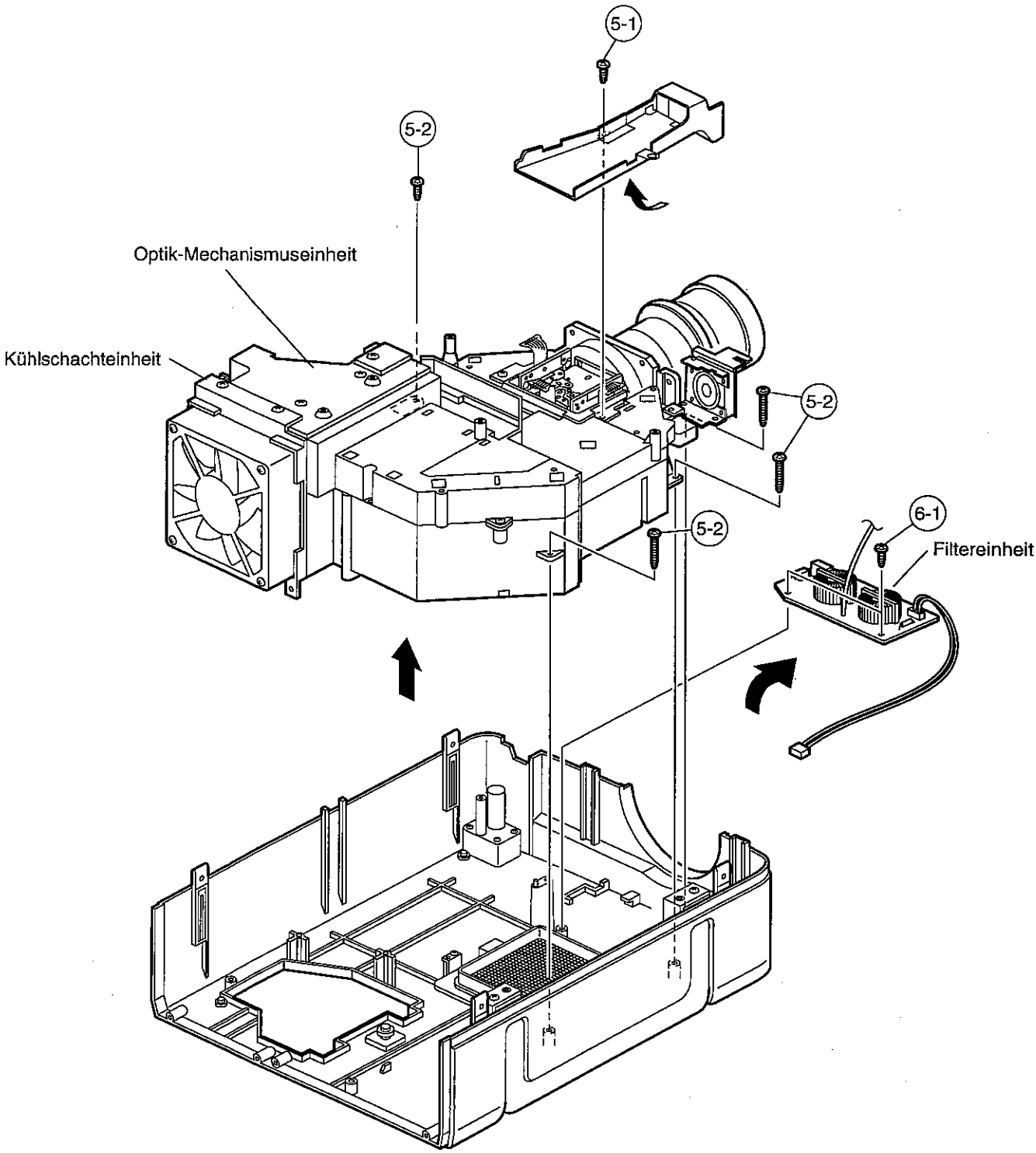


5. Entfernen der Optik-Mechanismuseinheit

5-1. Die Schraube vom IC-Kühlschacht losdrehen, dann den Kühlschacht herausnehmen.
5-2. Die fünf Schrauben der Optik-Mechanismuseinheit losdrehen, dann die Optik-Mechanismuseinheit abtrennen.

6. Entfernen der Filterplatine

6-1. Die beiden Schrauben von der Filterplatine losdrehen, dann die Filterplatine entfernen.

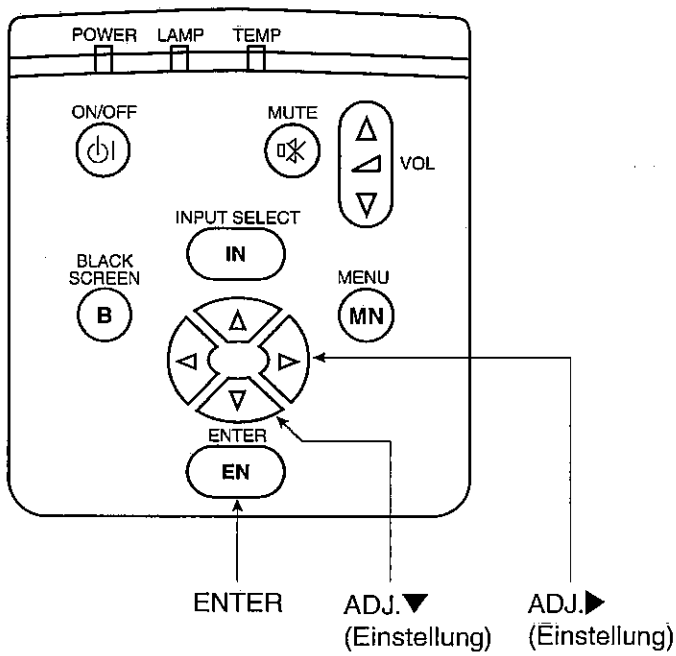


NULLSTELLUNG DES LAMPEN-BETRIEBSSTUNDENZÄHLERS (GESAMTZEIT)

Nachdem die Lampe ausgewechselt wurde, ist die aufgelaufene Gesamtzeit des Lampen-Betriebsstundenzählers in folgenden Schritten nullzustellen.

Nullstellungsverfahren

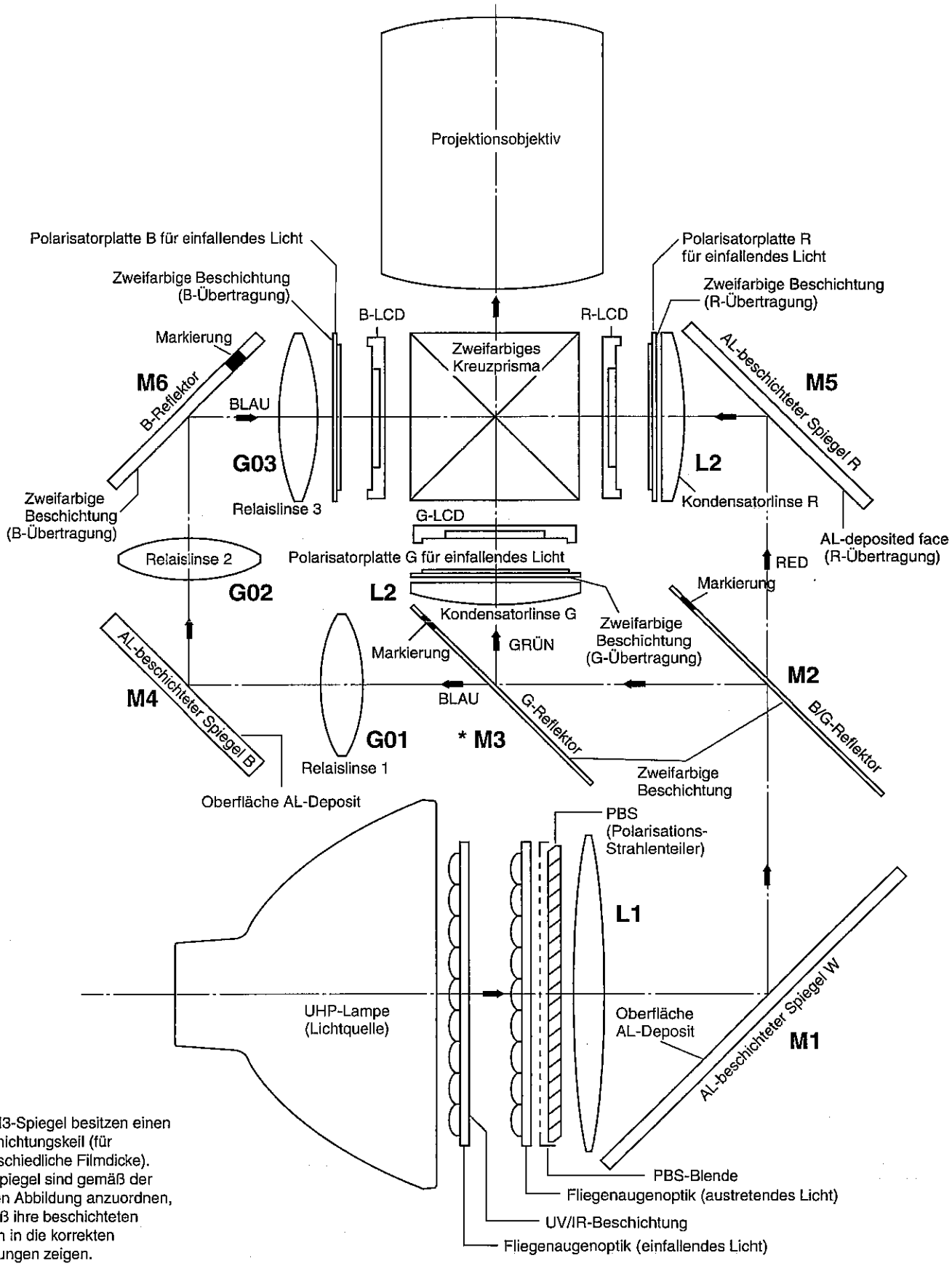
1. Während die Tasten "ENTER", "ADJ.▼" und "ADJ.▶" gleichzeitig gedrückt gehalten werden, den Hauptgeräteschalter aktivieren (befindet sich über dem Netzeingang).
2. Der Wert des Lampen-Betriebsstundenzählers ist nun auf Null zurückgestellt. "000H" erscheint auf dem Bildschirm.



ÜBERSICHT DER OPTIKEINHEIT

Übersicht des optischen Systems

Hinweis: Anordnung der Bauteile im optischen System



* Die M3-Spiegel besitzen einen Beschichtungskeil (für unterschiedliche Filmdicke). Die Spiegel sind gemäß der oberen Abbildung anzuordnen, so daß ihre beschichteten Seiten in die korrekten Richtungen zeigen.

EINSTELLUNG VON KONVERGENZ UND BRENNPUNKT

- **Bei eingeschaltetem Gerät, entferntem oberen Gehäuseteil und abgenommenen LCD-Abdeckungen (Ober-/Unterseite) mit den Konvergenz- und Brennpunkteinstellungen beginnen. Das Bild wird mit der Fernbedienung eingestellt. Es sind die folgenden Bedienschritte auszuführen:**

1. Fokussieren des Projektionsobjektivs

(A) Auswechseln aller 3 Flüssigkristallanzeigen (LCD)

1. Vor dem Auswechseln aller 3 Flüssigkristallanzeigen ist ein Bild auf die Leinwand zu projizieren und scharf einzustellen.
2. Die Flüssigkristallanzeigen durch neue ersetzen. Solange der Brennpunkt jedoch nicht vollständig eingestellt ist, sicherstellen, daß der Abstand zwischen dem Projektor und der Leinwand nicht verändert wird. Der Fokussierring des Projektionsobjektivs und der Zoomring dürfen ebenfalls nicht verändert werden.

(Wenn der Fokussierring mit einem unterschiedlichen Positionsverhältnis nachgestellt wird, wird das Verhältnis zwischen der Projektionsdistanz und der Leinwandgröße beeinflußt. Mit anderen Worten gesagt, kann ein Kurzdistanz-Bild (z.B. 40 mm Weitwinkel) außerhalb des Fokusbereichs liegen, während eine Zoomaufnahme (z.B. 300 Teleobjektiv) ebenfalls außerhalb des zulässigen Bereichs liegt.)

(B) Auswechseln von nur 1 oder 2 Anzeigen

1. Wenn nach dem Auswechseln von einer oder zwei LCD-Anzeigen eine Brennpunkteinstellung vorgenommen wird, ein Bild auf die Leinwand projizieren, dann Fokussierring verstellen, um die nicht ausgewechselte LCD-Anzeige in den Brennpunkt zu bringen.
2. Solange der Brennpunkt für beide neuen LCD-Anzeigen jedoch noch nicht vollständig abgeschlossen ist, unbedingt darauf achten, daß der Abstand zwischen dem Gerät und der Leinwand nicht verändert wird. Der Fokussierring des Projektionsobjektivs und der Zoomring dürfen ebenfalls nicht verändert werden.

(Wenn der Fokussierring verdreht oder das Projektionsobjektiv erneut eingestellt wurde, sind die obigen Schritte 1 und 2 zu wiederholen.)

2. Einstellen der G-LCD-Anzeige

(A) Brennpunkteinstellung (Diese Einstellung nur auf weißer Leinwand vornehmen.)

1. Rechte und linke Brennpunkteinstellung (θY-Richtung).
   Die Sicherungsschrauben "b" und "c" lockern und einen exzentrischen Schraubendreher in die Kerbe und das Loch "b" einführen. Den Schraubendreher solange drehen, bis sich die linke und rechte Hälfte auf der Leinwand im Brennpunkt befinden.
   (Zuerst die rechte und linke Hälfte einstellen, dann die Präzision verbessern, indem die nachfolgende Einstellung (Nr. 2) durchgeführt. wird.)
2. Brennpunkteinstellung (oben - Mitte - unten) (θX- und Z-Richtung):
   Die Sicherungsschrauben "a" und "c" lockern und einen exzentrischen Schraubendreher in die Kerbe und das Loch "a" oder "c" einführen. Den Schraubendreher solange drehen, bis sich die obere Hälfte, die Mitte und die untere Hälfte im Brennpunkt befinden. Bei der Einstellung des Brennpunkts (oben nach unten) ist die Sicherungsschraube "b" vorübergehend festzuziehen, um die θY-Richtungseinstellung zu fixieren.
3. Die obigen Schritte 1 und 2 wiederholen, um den Brennpunkt feineinzustellen. Schließlich sämtliche Sicherungsschrauben gut festziehen.

Hinweis:

① Mit der Brennpunkteinstellung vorsichtig voranschreiten, da die Einstellpositionen in gegenseitigem Bezug zueinander stehen.

② Bei der Einstellung der Konvergenz und des Brennpunkts darauf achten, daß das Zoomobjektiv und die Einstellringe bis zur Beendigung aller Einstellungen nicht verstellt werden.

(B) Einstellung der Konvergenz

- Die G-LCD-Anzeige besitzt keinen Konvergenz-Einstellmechanismus. Diese Anzeige als Referenz für die Konvergenzeinstellung benutzen.

3. Einstellung der B-LCD-Anzeige (gleich wie für R-LCD-Anzeige)

(A) Brennpunkteinstellung

- Das gleiche Verfahren wie bei der Brennpunkteinstellung der G-LCD-Anzeige vornehmen. Es wird darauf hingewiesen, daß der Einstellbereich in Z-Richtung klein ist. Sollten die Konvergenzwerte zwischen der B-LCD-Anzeige und der G-LCD-Anzeige zu unterschiedlich sein, die Konvergenz zuerst grobeinstellen und dann die Brennpunkteinstellung vornehmen.

(B) Konvergenzeinstellung

- Für diese Einstellung ist ein Kreuzschraffier-Muster zu benutzen.
  Die Einstellung ist ausschließlich für die G-Farbe und die zutreffende Farbe.
  (1) Die Konvergenz-Sicherungsschraube "d" lockern.
  (2) Die B-LCD-Anzeige in den Richtungen X, Y und θZ einstellen, wobei die Leinwandmitte der G-LCD-Anzeige als Referenz herangezogen werden muß.
  (3) Schließlich die Konvergenz-Sicherungsschraube "d" festziehen.

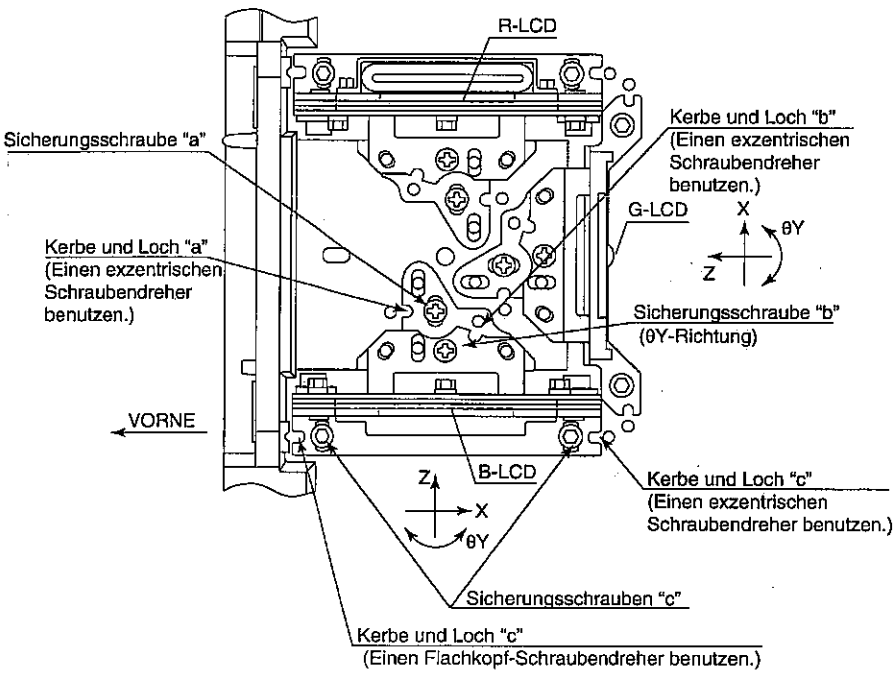
Hinweis:

① Der exzentrische Nocken wird für die Einstellung der Konvergenz benutzt. Das bedeutet daß sich der Nocken dreht und die Linearbewegung nicht immer gleichmäßig verläuft.

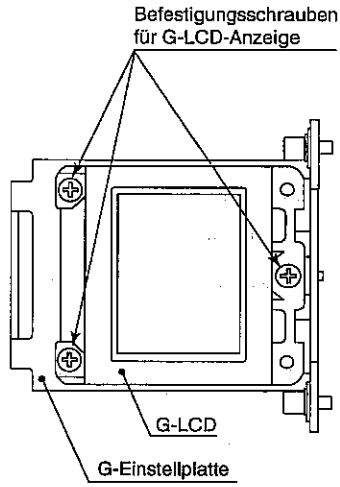
② Dieses Modell ist nicht mit einem LCD-Bildeinstellmechanismus ausgerüstst. Der Grund liegt in der Benutzung des zweifarbigen Prismas für die Bildformierung. Wenn alle LCD-Anzeigen optimal fokussiert sind, sind die Bilder fast vollständig konvergiert.

Konvergenz- und Brennpunkt-Einstellmechanismus

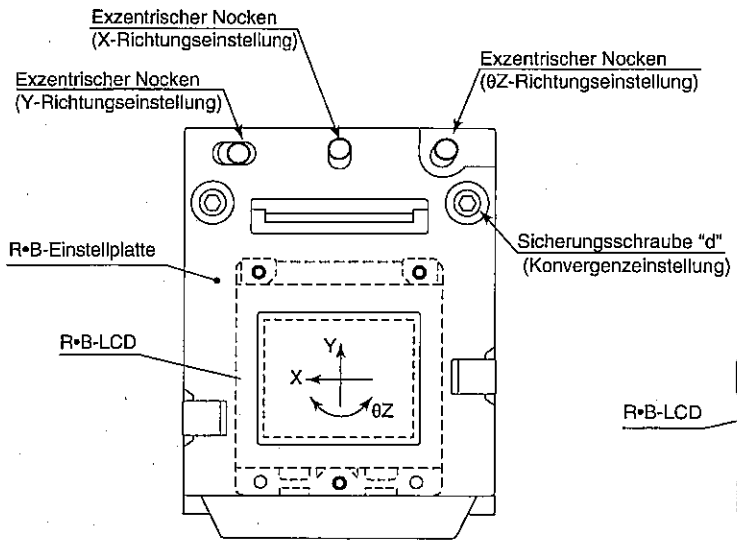
DRAUFSICHT



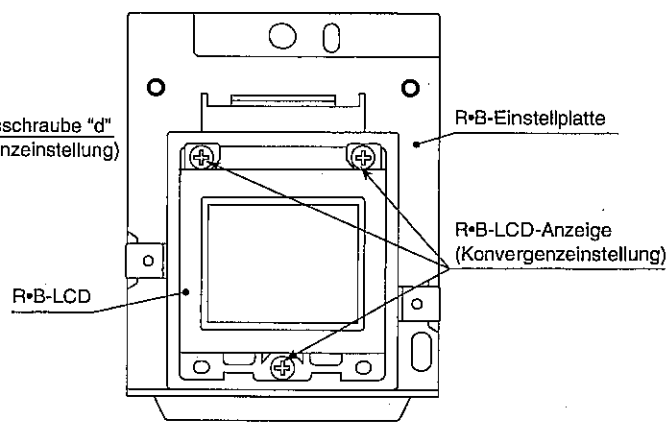
SEITENANSICHT



SEITENANSICHT (von innen)



SEITENANSICHT (von außen)



Konvergenz- und Brennpunkteinstellungen auf einen Blick

Einstellrichtungen

Einstellung	Richtung	Definition	Richtung der LCD-Anzeige
Konvergenz	X-Richtung		LCD rechts und links
	Y-Richtung		LCD oben und unten
	θZ-Richtung	Drehung um die Z-Achse	LCD-Drehachse
Brennpunkt	Z-Richtung		LCD, optische Achse
	θX-Richtung	Drehung um die X-Achse	LCD, oben bis unten (flattert)
	θY-Richtung	Drehung um die Y-Achse	LCD, rechts bis links (flattert)

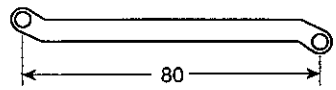
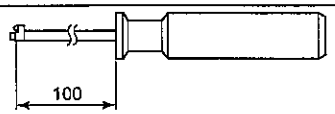
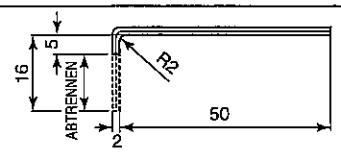
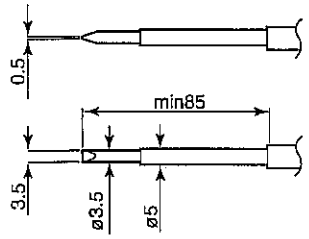
Konvergenz- und Brennpunkteinstellung für den Optikmechanismus

Farbe	Einstellung	Richtung	Bewegung	Position	Einstellwerkzeug	Sicherungsschraube	Festziehwerkzeug
R/B -Farben	Konvergenz	X-Richtung	±0.8mm	Exzentrischer Nocken	Einstellschlüssel für exzentrischen Nocken	d	Innensechskantschlüssel
		Y-Richtung	±0.8mm	Exzentrischer Nocken	Einstellschlüssel für exzentrischen Nocken	d	Innensechskantschlüssel
		θZ-Richtung	±1°	Exzentrischer Nocken	Einstellschlüssel für exzentrischen Nocken	d	Innensechskantschlüssel
	Brennpunkt	Z-Richtung	±0.8mm	Kerbe und Loch "a" und "c"	Exzentrischer Schraubendreher	a, c	Kreuzschlitz -Schraubendreher *Innensechskantschlüssel
		θX-Richtung	±1°	Kerbe und Loch "a" und "c"	Flachkopf-Schraubendreher	a, c	
		θY-Richtung	±1°	Kerbe und Loch "b" und "c"		b, c	
G-Farbe	Brennpunkt	Z-Richtung	±0.2mm	Gleich wie für R- und B-Farben			
		θX-Richtung	±1°				
		θY-Richtung	±1°				

Brennpunkteinstellung in die andere Richtung

Sicherungsschraube	Position	Zugehörige Richtung
a	Kerbe und Loch "a"	Richtungen Z und θX
b	Kerbe und Loch "b"	θY-Richtung
c	Kerbe und Loch "c"	Richtungen Z, θZ und θY

Konvergenz- und Brennpunkteinstellung sowie Festziehwerkzeuge

Werkzeug	Spezifisch oder allgemein	Werkzeugcode	Konfiguration
Exzentrischer Nockeneinstellschlüssel	spezifisch	9DASPN-XGNV1U	
Exzentrischer Schraubendreher	spezifisch	9EQDRiVER-NV1A	
Innensechskantschlüssel	allgemein (verändert)	9EQLNC-XGNV1U	
Flachkopf-Schraubendreher	allgemein	9EQDRiVER-NV1B	
Kreuzschlitz-Schraubendreher	allgemein	—	Für Linsenrundkopfschraube M2.6
* Innensechskantschlüssel	allgemein	—	Vorzugsweise einen Schraubendreher benutzen, der 70 mm oder länger ist.

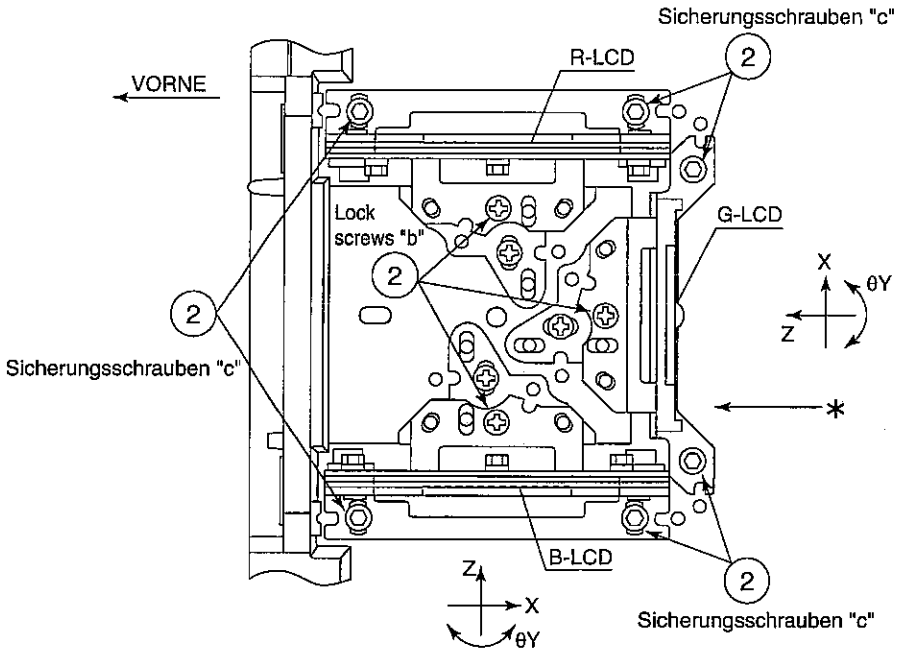
Auswechseln der Flüssigkristallanzeigen (LCDs)

Bei entferntem oberen Gehäuseteil

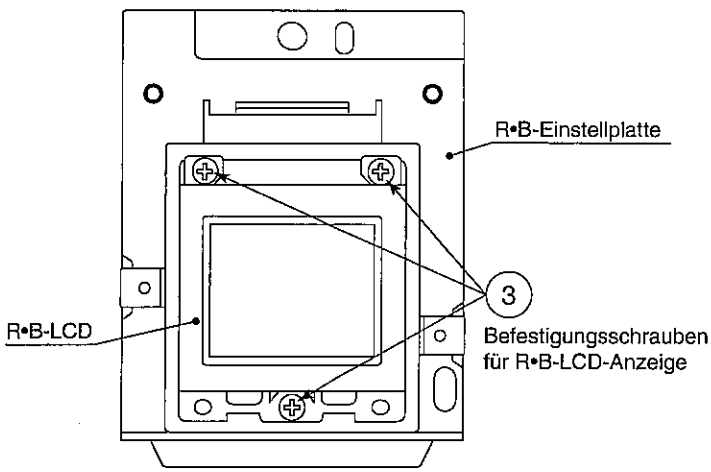
(1) Die obere LCD-Abdeckung entfernen.
(2)Die Schrauben "b" und "c" losdrehen. Die R/B-Einstellscheibe oder die G-Einstellscheibe zusammen mit der LCD-Tafel abnehmen.
(3) Die LCD-Tafel von der Einstellscheibe trennen.
(4) Die neue LCD-Tafel in umgekehrter obiger Reihenfolge (1), (2) und (3) wieder anbringen.

* Die Konvergenz und den Brennpunkt einstellen. Es wird darauf hingewiesen, daß die G LCD-Tafel keine Konvergenzeinstellung erfordert und einen kleinen Einstellbereich in Z-Richtung aufweist.

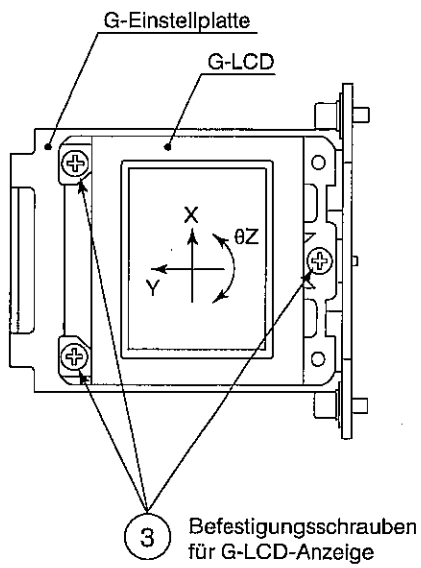
DRAUFSICHT



SEITENANSICHT



SEITENANSICHT

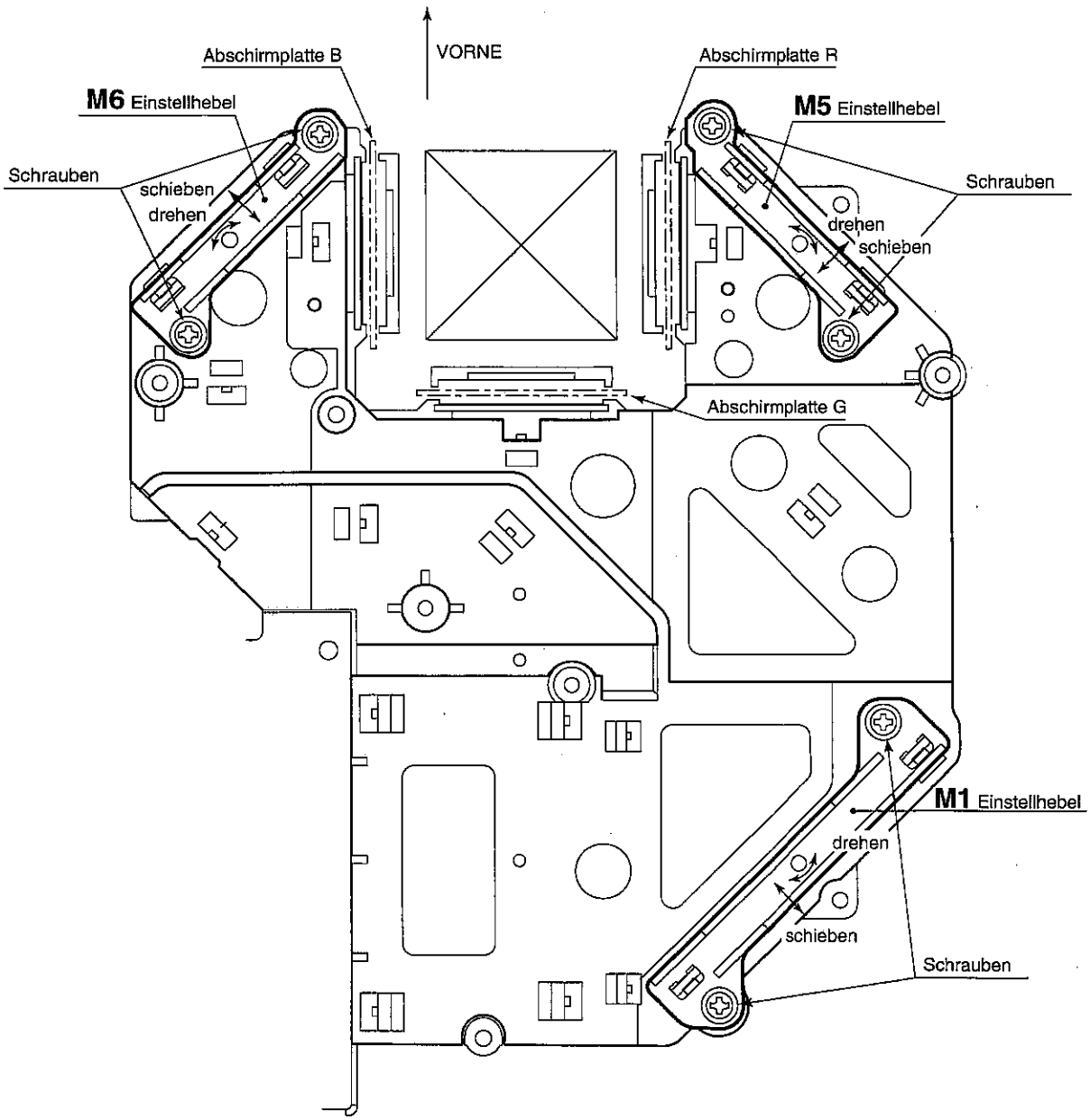


Einstellung der optischen Achse der Spiegel (M1, M5 und M6)

Die optische Achse muß nachjustiert werden, wenn mit den R-, G- oder B-Spiegeln eine Verdunkelung auftritt. Im allgemeinen wird diese Einstellung erforderlich, wenn irgendeine zur Optik zählende Komponente ausgewechselt wird.

Erforderliches Einstellverfahren, wenn eine der Platten ausgewechselt oder die Konvergenz eingestellt wurde:

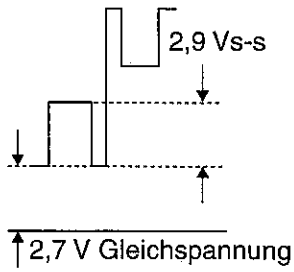
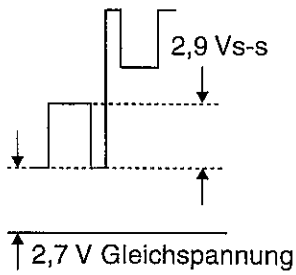
(1) Die Flachkabel von allen LCD-Tafeln abziehen.
(2) Die Lampe einschalten.
(3) Um den G-Spiegel einzustellen, sind die R- und B-Spiegel mit Abschirmplatten abzudecken. (Um das Licht zu blockieren, kann eine Visitenkarte oder etwas ähnliches verwendet werden.)
(4) Die Schraube des M1-Einstellhebels lockern.
(5) Das G-Bild am Bildschirm betrachten und den M1-Einstellhebel soweit verschieben, bis die Abdunkelung am Bildschirm verschwindet. Danach die Schraube wieder festziehen.
(6) Um den R-Spiegel einzustellen, sind die G- und B-Spiegel mit Abschirmplatten abzudecken und der M5-Einstellhebel einzustellen. Für den B-Spiegel sind die R- und G-Spiegel mit dem M6-Einstellhebel einzustellen.
(Die obigen Schritte (4) und (5) durchführen.)
(7) Alle Abschirmplatten entfernen, die weiß sind.
Sicherstellen, daß keine Verdunkelung vorherrscht.

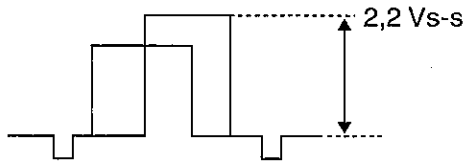


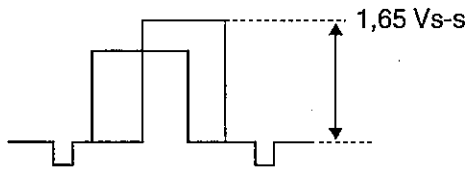
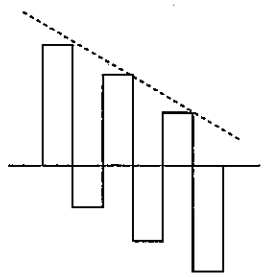
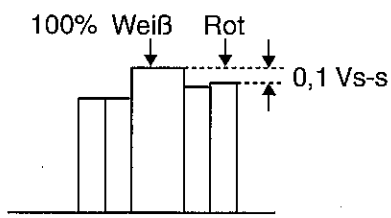
ELEKTRISCHE EINSTELLUNG

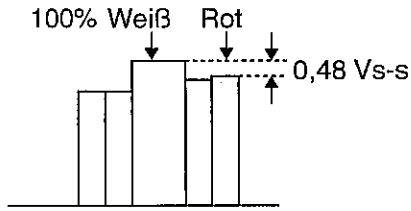
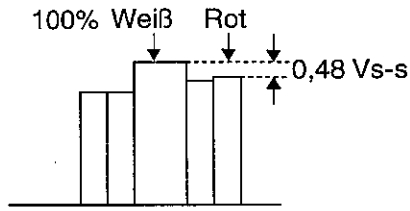
Einen Signalgenerator, PC oder Macintosh-Computer am Projektor anschließen, um die in den Einstellbedingungen spezifizierten Signale zuzuführen.

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
1	**EEPROM-Initialisierung**	1. Den Netzschalter einschalten und das Gerät für ca. 15 Minuten vorwärmen lassen. (Sicherstellen, daß die Kontrollampe aufleuchtet.)	• Folgende Einstellungen vornehmen: S5001 drücken, um den Verarbeitungsmodus abzurufen, und um S2 im SSS-Menü auszuführen. Das System ist nun initialisiert (PC-Platine nicht miteingeschlossen). S1 darf nicht ausgeführt werden, da die PC-Platine sonst initialisiert wird. Um die Platine einzustellen, die Vorschriften in "Einstellung der Platine" folgen. (Siehe seite 68)
2	**R-Antrieb**	1. Die folgende Wahl treffen. Gruppe : Analog/Digital Gegenstand : GAIN Sicherstellen, das der GAIN-Wert 163 beträgt. 2. Das 100%ige Rotsignal, das SVGA-Signal (800x600) 60 Hz sowie 700 mV über den PC IN-Anschluß zuführen. Gruppe : Analog/Digital Gegenstand : R-D	• Die Regelschalter oder die Tasten auf der Fernbedienung betätigen und die Daten so einstellen, daß das Signal "bitlos" (Störung) wird.
3	**B-Antrieb**	1. Das 100%ige Blausignal, das SVGA-Signal (800x600) 60 Hz sowie 700 mV über den PC IN-Anschluß zuführen. Gruppe : Analog/Digital Gegenstand : B-D	• Die Regelschalter oder die Tasten auf der Fernbedienung betätigen und die Daten so einstellen, daß das Signal "bitlos" (Störung) wird.
4	**G-Antrieb**	1. Das 100%ige Grünsignal, das SVGA-Signal (800x600) 60 Hz sowie 700 mV über den PC IN-Anschluß zuführen. Gruppe : Analog/Digital Gegenstand : G-D	• Die Regelschalter oder die Tasten auf der Fernbedienung betätigen und die Daten so einstellen, daß das Signal "bitlos" (Störung) wird.

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
5	**Schwarzpegel-Signalamplitude für RGB 1-System (ungeradzahlig)**	1. Die folgende Wahl treffen. Gruppe : OUTPUT 1 Gegenstand : R1-BLK R1-GAIN Für Grün sind die Gegenstände G1-BLK und G1-GAIN zu wählen. Für Schwarz sind die Gegenstände B1-BLK und B1-GAIN zu wählen. 2. Das Oszilloskop am Stift (4) (TP1101) von SC1101 für Rot anschließen. Stift (4) (TP1201) von SC1201 für Grün Stift (4) (TP1301) von SC1301 für Blau	• Den Gegenstand R1-BLK wählen und den Schwarz-Spitzenpegel auf 2,7 ±0,1 V Gleichspannung einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. • Danach den Gegenstand R1-GAIN wählen und die Signalamplitude auf 2,9 ±0,1 Vs-s einstellen. • Die gleiche Einstellung für Grün und Blau durchführen. 
6	**Schwarzpegel-Signalamplitude für RGB 2-System (geradzahlig)**	1. Die folgende Wahl treffen. Gruppe : OUTPUT 2 Gegenstand : R2-BLK (R) R2-GAIN Für Grün sind die Gegenstände G2-BLK und G2-GAIN zu wählen. Für Schwarz sind die Gegenstände B2-BLK und B2-GAIN zu wählen. 2. Das Oszilloskop am Stift (6) (TP1102) von SC1101 für Rot anschließen. Stift (6) (TP1202) von SC1201 für Grün Stift (6) (TP1302) von SC1301 für Blau	• Den Gegenstand R2-BLK wählen und den Schwarz-Spitzenpegel auf 2,7 ±0,1 V Gleichspannung einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. • Danach den Gegenstand R2-GAIN wählen und die Signalamplitude auf 2,9 ±0,1 Vs-s einstellen.  • Die gleiche Einstellung für Grün und Blau durchführen. • Das SVGA-Einzelfarben-Abstufungsmustersignal zuführen und sicherstellen, daß kein Unterschied in der Helligkeit zwischen den benachbarten Vertikalzeilen besteht. Falls ein Helligkeitsunterschied besteht, muß die Feineinstellung anhand der folgenden Posten eingestellt werden: R2-GAIN für Rot G2-GAIN für Grün B2-GAIN für Blau
7	**Muster- und Halteimpulsphase** **RCK-PHASE** **GCK-PHASE** **BCK-PHASE**	1. Das XGA-Schwarzwertsignal (75 Hz) zuführen. 2. Folgende Wahl vornehmen: Gruppe : OUTPUT 3 Gegenstand : SH-PHASE (Den Standardpegel auf 8 halten.) Die Phaseneinstellungen für R, G und B auf 4 fixieren.	• Die Einstellung mit den Regelschaltern oder den Fernbedienungstasten vornehmen. Dabei die Einstellung so durchführen, daß die "OUTPUT 3"-Zeichen nicht verschwommen sind bzw. überlappen. Wenn die Zeichen verschwommen sind oder überlappen, muß die Einstellung im Bereich zwischen 7 und 9 ausgeführt werden.

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
8	**Einstellung der RGB-Gegenspannung**	1. Das 25%ige Schwarz-/Rot-Streifensignal (SVGA) dem RGB1 zuführen. 2. Folgende Wahl vornehmen: Gruppe : OUTPUT 3 Gegenstand : RC (R) 3. Beim Betätigen der Bedienungsschalter oder der Tasten auf der Fernbedienung zum äußeren RG1 wechseln.	• Die Daten einstellen, um das Bildflimmern zu reduzieren. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. • Die gleiche Einstellung für BC (B) und GC (G) vornehmen. • Sicherstellen, daß beide Seiten rechts und links am Bildschirm mittig ausgerichtet sind. Falls dies nioht der Fall ist, muß der Bildschirm so eingestellt werden, daß das Bild rechts und links identisch ist.
9	**RGB-Weißbalance**	1. Das Grauskalensignal (32 Abstufungen) zuführen (SVGA). Gruppe : OUTPUT 1 Position : R1-BLK R1-GAIN (R) B1-BLK B1-GAIN (B)	• Die Posten R1-BLK und B1-BLK wählen und die Schwarzbalance der Abstufung einstellen. Die Posten von R1-GAIN und B1-GAIN wählen und die Grau-zu-Weißbalance einstellen, so daß der gesamte Bildschirm farblos erscheint.
10	**Horizontal center**	1. Das NTSC-Monoskopsignal zuführen. 2. Gruppe : VIDEO 2 Gegenstand : N358-DLY N443-DLY PAL-DLY SECAM-DLY Sicherstellen, das alle Einstellungen auf Null (0) eingestellt sind. 3. Gruppe : VIDEO 1 Gegenstand : NTSC-H	• Die Daten einstellen, um den gleichen Überscan-Wert zu erzielen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen.
11	**Einstellung des Videobilds**	1. Das Trennfarbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : PICTURE 2. Ein Oszilloskop zwischen Stift (2) von P801 und GND anschließen.	• Die Schwarz-zu-Weiß Signalpegeldifferenz (100%) auf 2,2 ±0,02 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. 

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
12	**Video AVR**	1. Das Trennfarbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : AGC 2. Das Oszilloskop zwischen Stift (2) von P801 und GND anschließen.	• Die Schwarz-zu-Weiß Signalpegeldifferenz (100%) auf 1,65 ±0,02 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. 
13	**Einstellung der Bildhelligkeit**	1. Das Grundfrequenzsignal (Trennfarbbalkensignal) zuführen. (Das ON-AIR-Signal ist nicht zulässig, da es zu viele Störungen erzeugt.) Gruppe : VIDEO 1 Gegenstand : BRIGHT 2. Den Regelschalter oder die Stummschalttaste auf der Fernbedienung drücken, um die Gammakorrektur auf die Verarbeitungseinstellung einzustellen.	• Die Einstellung so lange vornehmen, bis das Schwarzwertsignal "bitlos" ist. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen.
14	**Farbton**	1. Das Trennfarbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : TINT 2. Das Oszilloskop am Stift (5) von P801 anschließen.	• Die Daten so einstellen, daß die -(B-Y)-Welle geradlinig abfällt. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. 
15	**NTSC-Farbsättigungspegel**	1. Das Trennfarbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : N-COLOR 2. Das Oszilloskop am Stift (1) von P801 anschließen.	• Die Differenz (100%) des Weiß- und Rotanteils auf 0,1 ±0,02 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. 

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
16	**PAL-Farbsättigungspegel**	1. Das PAL-Farbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : P-COLOR 2. Das Oszilloskop am Stift (1) von P801 anschließen.	• Die Differenz (100%) des Weiß- und Rotanteils auf 0,48 ±0,02 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. 
17	**SECAM-Farbsättigungspegel**	1. Das SECAM-Farbbalkensignal zuführen. Gruppe : VIDEO 1 Gegenstand : S-COLOR 2. Das Oszilloskop am Stift (1) von P801 anschließen.	• Die Daten-Differenz (100%) des Weiß- und Rotanteils auf 0,48 ±0,02 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. 
18	**Video-Weißbalance**	1. Das NTSC-Monoskopsignal zuführen. Gruppe : VIDEO 2 Gegenstand : R1-GAIN B1-GAIN	• Die Weißbalance so einstellen, so daß diese mit jener des Bildschirms identisch ist. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. Wenn die schwarze Seite nicht ordnungsgemäß eingestellt ist, zuerst die schwarze Seite anhand der folgenden Wahl einstellen: Gruppe : OUTPUT 1 Gegenstand : R1-BLK B1-BLK Danach die folgenden Wahl treffen: Gruppe : VIDEO 2 Gegenstand : R1-GAIN B1-GAIN Die verwandten Daten einstellen. Da die Posten R1-BLK und B1-BLK für die RGB- und VIDEO-Eingabe allgemeiner Natur sind, das RGB-Signal erneut zuführen um die Weißbalance einzustellen.
19	**Leistungsprüfung des Farbsystems**	1. Das Farbbalkensignal empfangen.	• Im Verarbeitungsmodus L1 anwählen. Die Farbe und die Tönung überprüfen.
20	**Leistungsprüfung des Videosystems**	1. Das Monoskopsignal empfangen.	• Im Verarbeitungsmodus L2 anwählen. Die Farbe und die Tönung überprüfen.

Nr.	Einstellposition	Einstellbedingung	Einstellverfahren
21	**Leistungsprüfung des Audiosystems**		• Im Verarbeitungsmodus L3 anwählen. Baß, Höhen und Balance überprüfen.
22	**RGB-Leistungsprüfung**	1. Das RGB-Signal empfangen.	• Im Verarbeitungsmodus L4 anwählen. Bild, Helligkeit, Rot, Blau, Takt, Phase, Horizontal- und Vertikalposition überprüfen.
23	**Leistungsprüfung Off-Timer**		• Im Verarbeitungsmodus OFF anwählen. Sicherstellen, daß der Off-Timer bei "5" (Minuten) beginnt, jede Minute in 1 sec Intervallen herunterzählt und das Gerät bei "0" ausschaltet.
24	**Thermistor-Leistungsprüfung**	1. Den Thermistor mit einem Fön erwärmen.	• Sicherstellen, daß "TEMP" angezeigt wird.
25	**Werkseinstellungen**		• Folgende Einstellungen durchführen: Verarbeitungseinstellung: S4 Fernbedienungseinstellung: "Werkseinstellung 4"

EINSTELLUNG DER PC-PLATINE (CPCi-0025CE04. PC I/F Einheit)

1. Initialisierung des EEPROM

1) Die Tasten S5001 betätigen, um den Verarbeitungsmodus abzurufen.
2) S1 im SSS-Menü ausführen. (S1 wird benutzt, um ausschließlich die PC-Platine zu initialisieren. Nicht S2 ausführen, da andernfalls sämtliche eingestellte Daten außer der PC-Platine initialisiert werden.)

2. Einstellung der Signalpegel

2-1. Justierten des Oszilloskop-Einstellbereichs

Den Einstellbereich auf Gleichspannung 1 V/Teilung und 5µs/Teilung bringen.

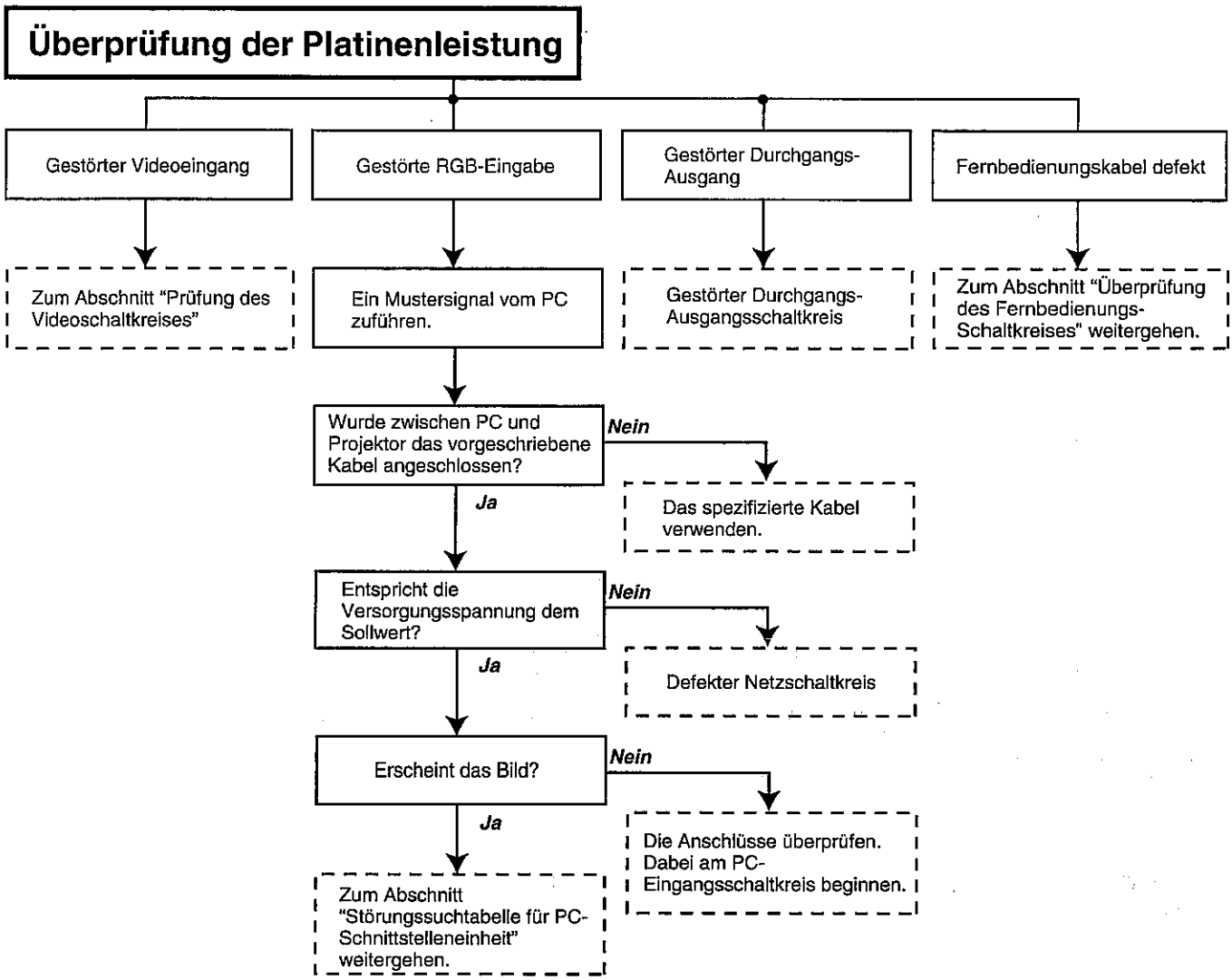
2-2. Eingangssignal

Das SVGA-Abstufungs-Wellenformsignal (800x600, 60 Hz) zuführen.

2-3. Einstellung und Überprüfung der Pegeleinstellungen

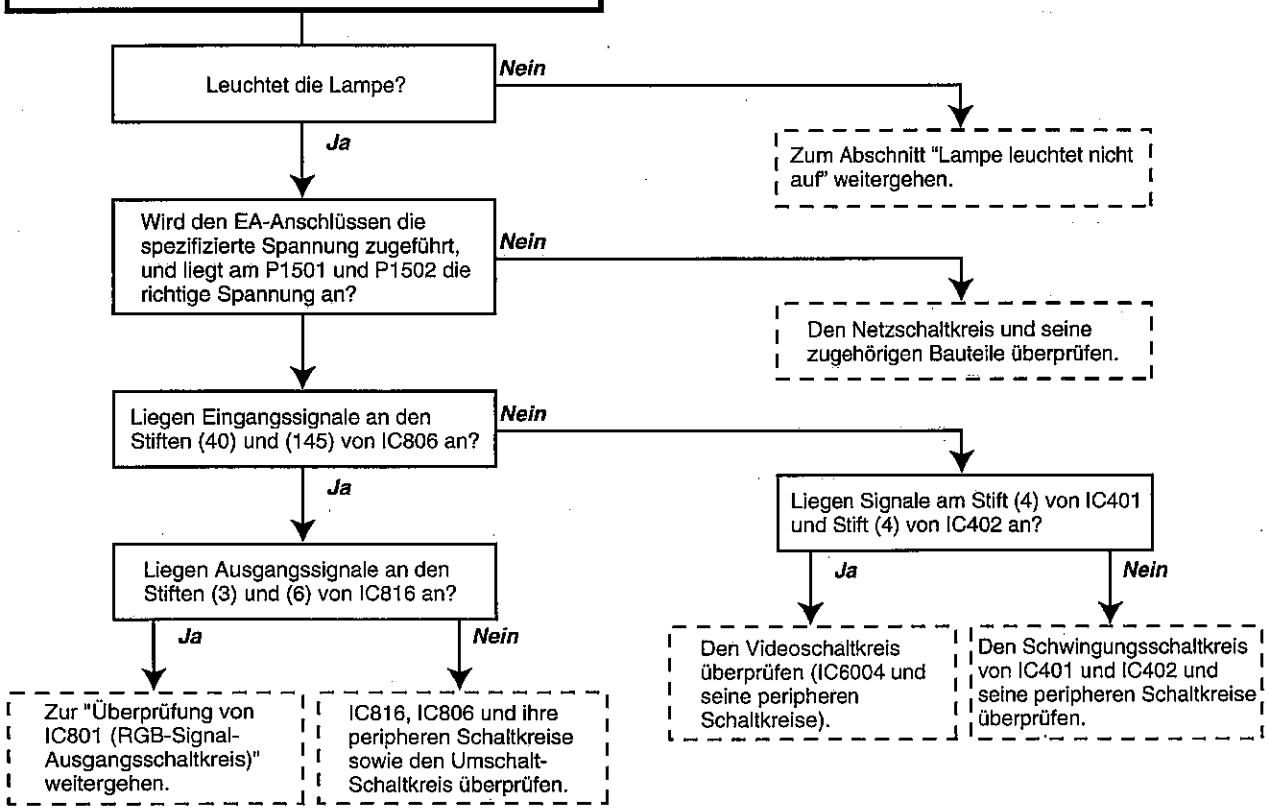
1) Die Taste S5001 betätigen, um den Verarbeitungsmodus abzurufen.
2) Die SH-PHASE am "OUTPUT 3"-Menü einstellen, bis die "OUTPUT 3"-Zeichen nicht mehr verschwommen sind.
3) Ein Oszilloskop an TP2 anschließen. Die Helligkeit (BRIGHT) von "OUTPUT 2" so einstellen, daß der Schwarzwertpegel des Signals 1,7 V beträgt.
4) ROS im Analog/Digital-Menü so einstellen, bis die Spannung am Pluspol von C64 oder Stift (2) von IC11 1.7 V beträgt.
5) GOS im Analog/Digital-Menü so einstellen, bis die Spannung am Pluspol von C57 oder Stift (2) von IC10 1.7 V beträgt.
6) BOS im Analog/Digital-Menü so einstellen, bis die Spannung am Pluspol von C50 oder Stift (2) von IC9 1.7 V beträgt.
7) Sicherstellen, das der GAIN-Wert im Analog/Digital-Menü 163 beträgt.
8) Das Oszilloskop an TP1 anschließen. R-D im Analog/Digital-Menü so einstellen, bis der Weißspitzenpegel des Signals 3,6 V beträgt. (Sicherstellen, das die Schwarz- und Weißabstufungen klar sichtbar sind.)
9) Das Oszilloskop an TP3 anschließen. B-D im Analog/Digital-Menü so einstellen, bis der Weißspitzenpegel des Signals 3,6 V beträgt. (Sicherstellen, das die Schwarz- und Weißabstufungen klar sichtbar sind.)
10) Das Oszilloskop an TP2 anschließen. G-D im Analog/Digital-Menü so einstellen, bis der Weißspitzenpegel des Signals 3,6 V beträgt. (Sicherstellen, das die Schwarz- und Weißabstufungen klar sichtbar sind.)
11) Die Taste S5001 betätigen, um den Verarbeitungsmodus wieder zu verlassen.

FEHLERSUCHTABELLE

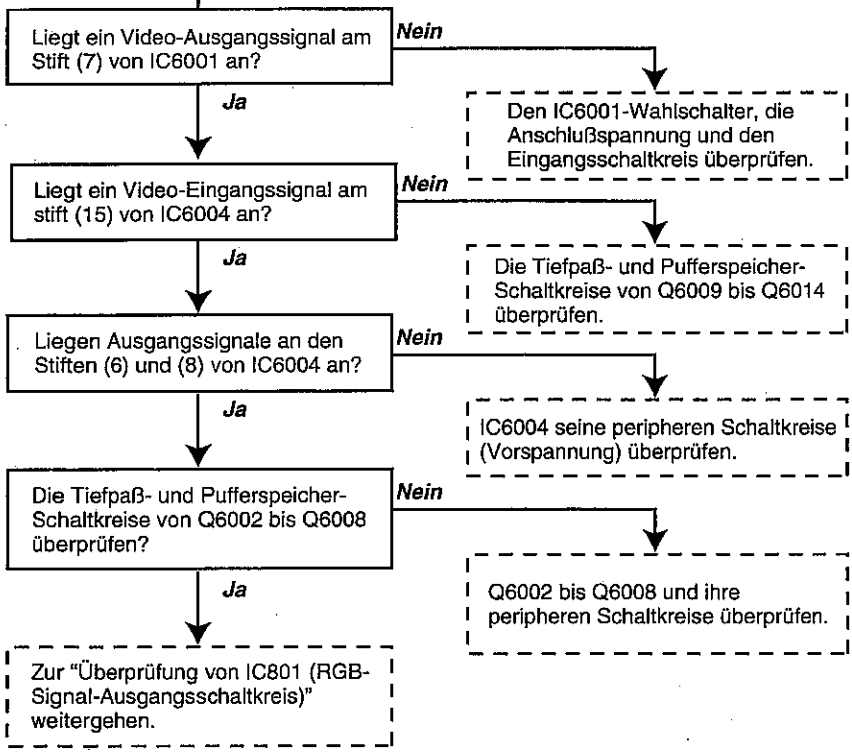


FEHLERSUCHTABELLE (Fortsetzung)

Überprüfung des Videosystems

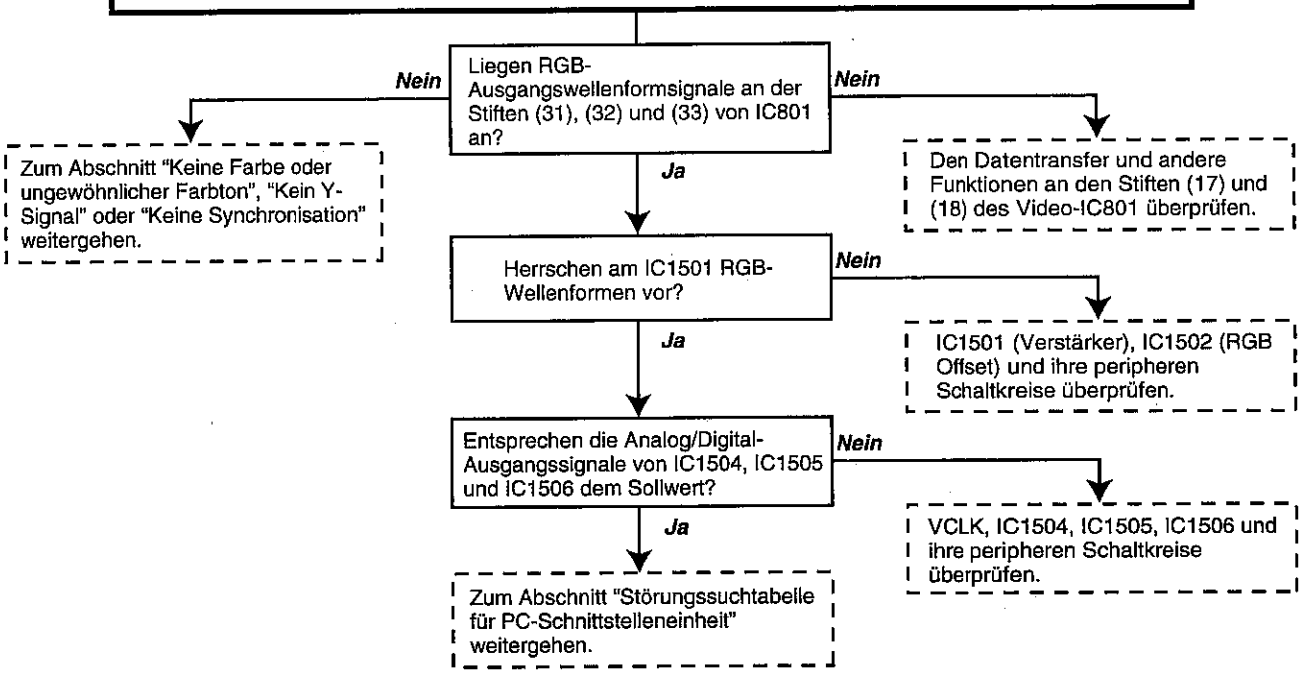

Leuchtet die Lampe?
Nein
Ja
Zum Abschnitt "Lampe leuchtet nicht auf" weitergehen.
Wird den EA-Anschlüssen die spezifizierte Spannung zugeführt, und liegt am P1501 und P1502 die richtige Spannung an?
Nein
Den Netzschaltkreis und seine zugehörigen Bauteile überprüfen.
Liegen Eingangssignale an den Stiften (40) und (145) von IC806 an?
Nein
Ja
Liegen Signale am Stift (4) von IC401 und Stift (4) von IC402 an?
Ja
Nein
Liegen Ausgangssignale an den Stiften (3) und (6) von IC816 an?
Ja
Nein
Den Videoschaltkreis überprüfen (IC6004 und seine peripheren Schaltkreise).
Den Schwingungsschaltkreis von IC401 und IC402 und seine peripheren Schaltkreise überprüfen.
Zur "Überprüfung von IC801 (RGB-Signal-Ausgangsschaltkreis)" weitergehen.
IC816, IC806 und ihre peripheren Schaltkreise sowie den Umschalt-Schaltkreis überprüfen.

Überprüfung des Videoschaltkreises

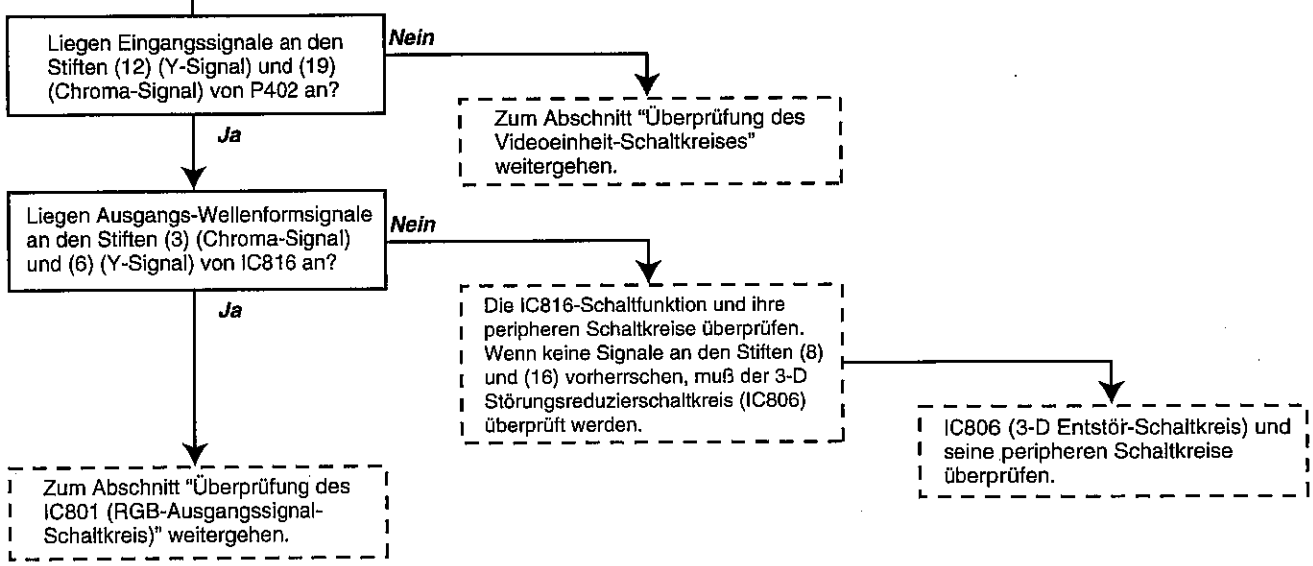

Liegt ein Video-Ausgangssignal am Stift (7) von IC6001 an?
Nein
Ja
Den IC6001-Wahlschalter, die Anschlußspannung und den Eingangsschaltkreis überprüfen.
Liegt ein Video-Eingangssignal am stift (15) von IC6004 an?
Nein
Ja
Die Tiefpaß- und Pufferspeicher-Schaltkreise von Q6009 bis Q6014 überprüfen.
Liegen Ausgangssignale an den Stiften (6) und (8) von IC6004 an?
Nein
Ja
IC6004 seine peripheren Schaltkreise (Vorspannung) überprüfen.
Die Tiefpaß- und Pufferspeicher-Schaltkreise von Q6002 bis Q6008 überprüfen?
Nein
Ja
Q6002 bis Q6008 und ihre peripheren Schaltkreise überprüfen.
Zur "Überprüfung von IC801 (RGB-Signal-Ausgangsschaltkreis)" weitergehen.

FEHLERSUCHTABELLE (Fortsetzung)

Überprüfung des IC801 (RGB-Signal-Ausgangsschaltkreis)

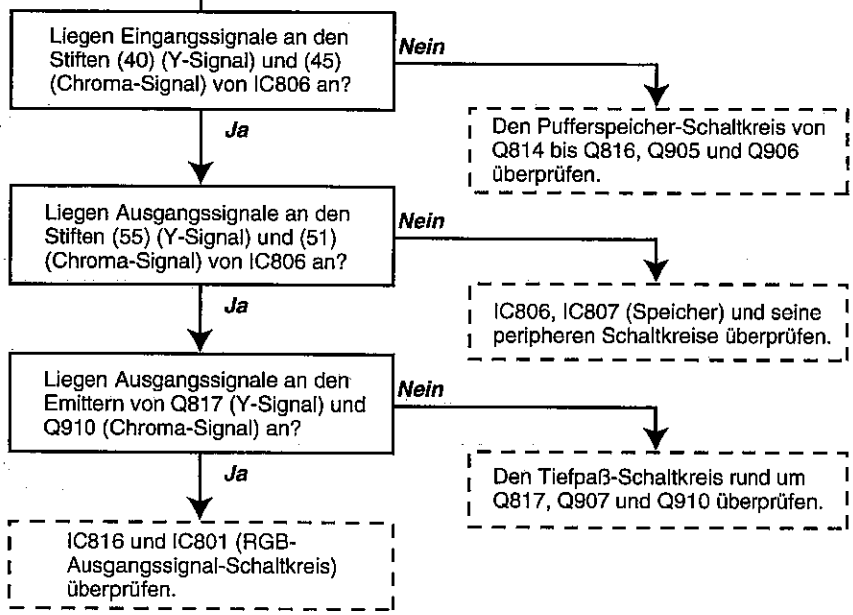

Liegen RGB-Ausgangswellenformsignale an der Stiften (31), (32) und (33) von IC801 an?
Nein
Zum Abschnitt "Keine Farbe oder ungewöhnlicher Farbton", "Kein Y-Signal" oder "Keine Synchronisation" weitergehen.
Nein
Den Datentransfer und andere Funktionen an den Stiften (17) und (18) des Video-IC801 überprüfen.
Ja
Herrschen am IC1501 RGB-Wellenformen vor?
Nein
IC1501 (Verstärker), IC1502 (RGB Offset) und ihre peripheren Schaltkreise überprüfen.
Ja
Entsprechen die Analog/Digital-Ausgangssignale von IC1504, IC1505 und IC1506 dem Sollwert?
Nein
VCLK, IC1504, IC1505, IC1506 und ihre peripheren Schaltkreise überprüfen.
Ja
Zum Abschnitt "Störungssuchtabelle für PC-Schnittstelleneinheit" weitergehen.

Überprüfung der Chroma- und Y-Signale des IC801 (RGB-Signalausgabe)

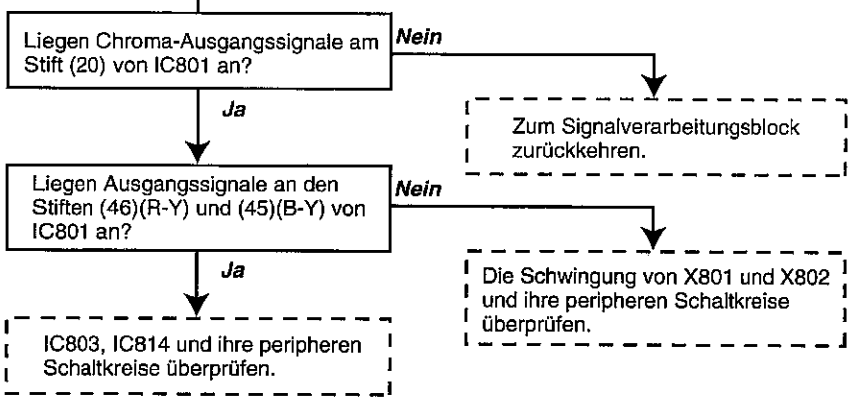

Liegen Eingangssignale an den Stiften (12) (Y-Signal) und (19) (Chroma-Signal) von P402 an?
Nein
Zum Abschnitt "Überprüfung des Videoeinheit-Schaltkreises" weitergehen.
Ja
Liegen Ausgangs-Wellenformsignale an den Stiften (3) (Chroma-Signal) und (6) (Y-Signal) von IC816 an?
Nein
Die IC816-Schaltfunktion und ihre peripheren Schaltkreise überprüfen. Wenn keine Signale an den Stiften (8) und (16) vorherrschen, muß der 3-D Störungsreduzierschaltkreis (IC806) überprüft werden.
IC806 (3-D Entstör-Schaltkreis) und seine peripheren Schaltkreise überprüfen.
Ja
Zum Abschnitt "Überprüfung des IC801 (RGB-Ausgangssignal-Schaltkreis)" weitergehen.

FEHLERSUCHTABELLE (Fortsetzung)

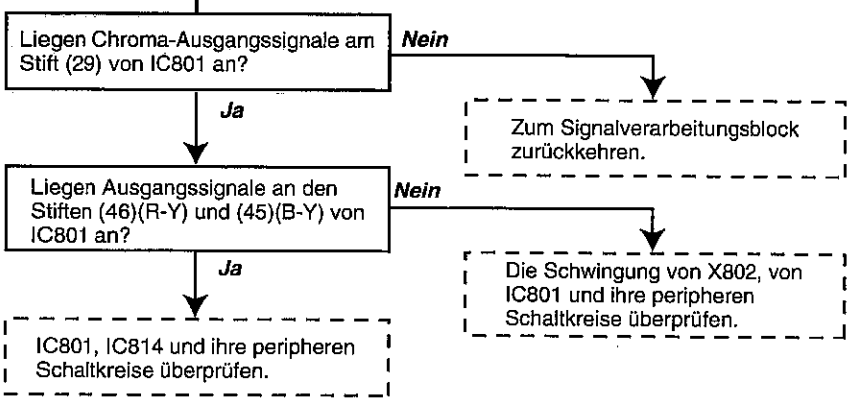
Überprüfung des IC806 (3-D Störungs-Reduzierschaltkreis) und seiner peripheren Schaltkreise


Liegen Eingangssignale an den Stiften (40) (Y-Signal) und (45) (Chroma-Signal) von IC806 an?
Nein
Den Pufferspeicher-Schaltkreis von Q814 bis Q816, Q905 und Q906 überprüfen.
Ja
Liegen Ausgangssignale an den Stiften (55) (Y-Signal) und (51) (Chroma-Signal) von IC806 an?
Nein
IC806, IC807 (Speicher) und seine peripheren Schaltkreise überprüfen.
Ja
Liegen Ausgangssignale an den Emittern von Q817 (Y-Signal) und Q910 (Chroma-Signal) an?
Nein
Den Tiefpaß-Schaltkreis rund um Q817, Q907 und Q910 überprüfen.
Ja
IC816 und IC801 (RGB-Ausgangssignal-Schaltkreis) überprüfen.

Keine Farbe oder ungewöhnlicher Farbton (NTSC, PAL)

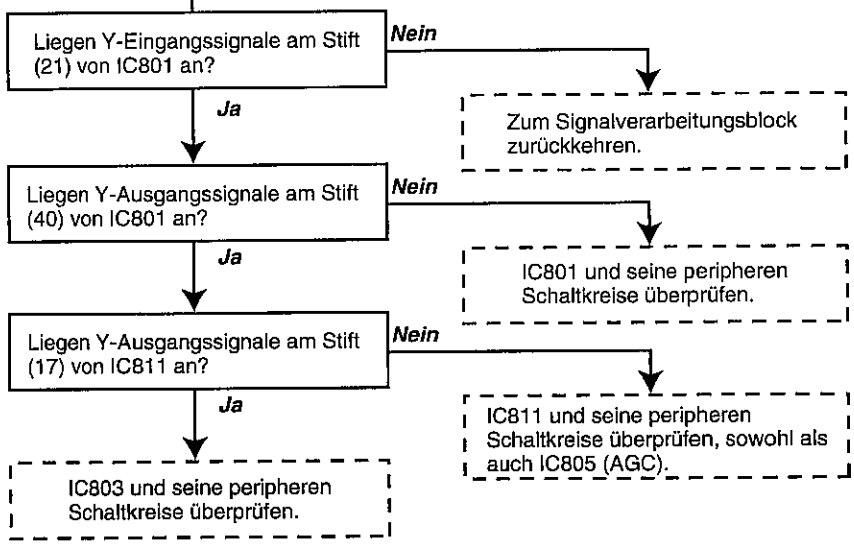

Liegen Chroma-Ausgangssignale am Stift (20) von IC801 an?
Nein
Zum Signalverarbeitungsblock zurückkehren.
Ja
Liegen Ausgangssignale an den Stiften (46)(R-Y) und (45)(B-Y) von IC801 an?
Nein
Die Schwingung von X801 und X802 und ihre peripheren Schaltkreise überprüfen.
Ja
IC803, IC814 und ihre peripheren Schaltkreise überprüfen.

Keine Farbe oder ungewöhnlicher Farbton (SECAM)

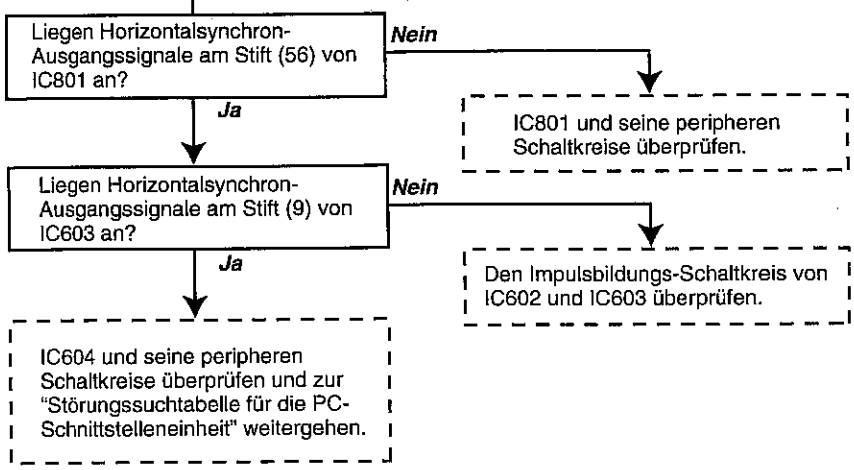

Liegen Chroma-Ausgangssignale am Stift (29) von IC801 an?
Nein
Zum Signalverarbeitungsblock zurückkehren.
Ja
Liegen Ausgangssignale an den Stiften (46)(R-Y) und (45)(B-Y) von IC801 an?
Nein
Die Schwingung von X802, von IC801 und ihre peripheren Schaltkreise überprüfen.
Ja
IC801, IC814 und ihre peripheren Schaltkreise überprüfen.

FEHLERSUCHTABELLE (Fortsetzung)

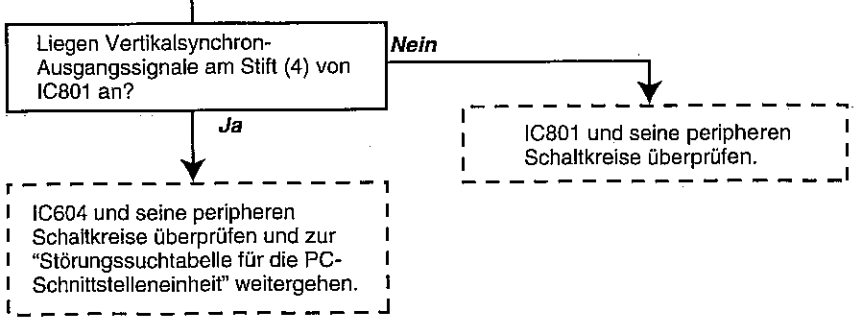
Kein oder ungewöhnliches Y-Signal


Liegen Y-Eingangssignale am Stift (21) von IC801 an?
Nein
Zum Signalverarbeitungsblock zurückkehren.
Ja
Liegen Y-Ausgangssignale am Stift (40) von IC801 an?
Nein
IC801 und seine peripheren Schaltkreise überprüfen.
Ja
Liegen Y-Ausgangssignale am Stift (17) von IC811 an?
Nein
IC811 und seine peripheren Schaltkreise überprüfen, sowohl als auch IC805 (AGC).
Ja
IC803 und seine peripheren Schaltkreise überprüfen.

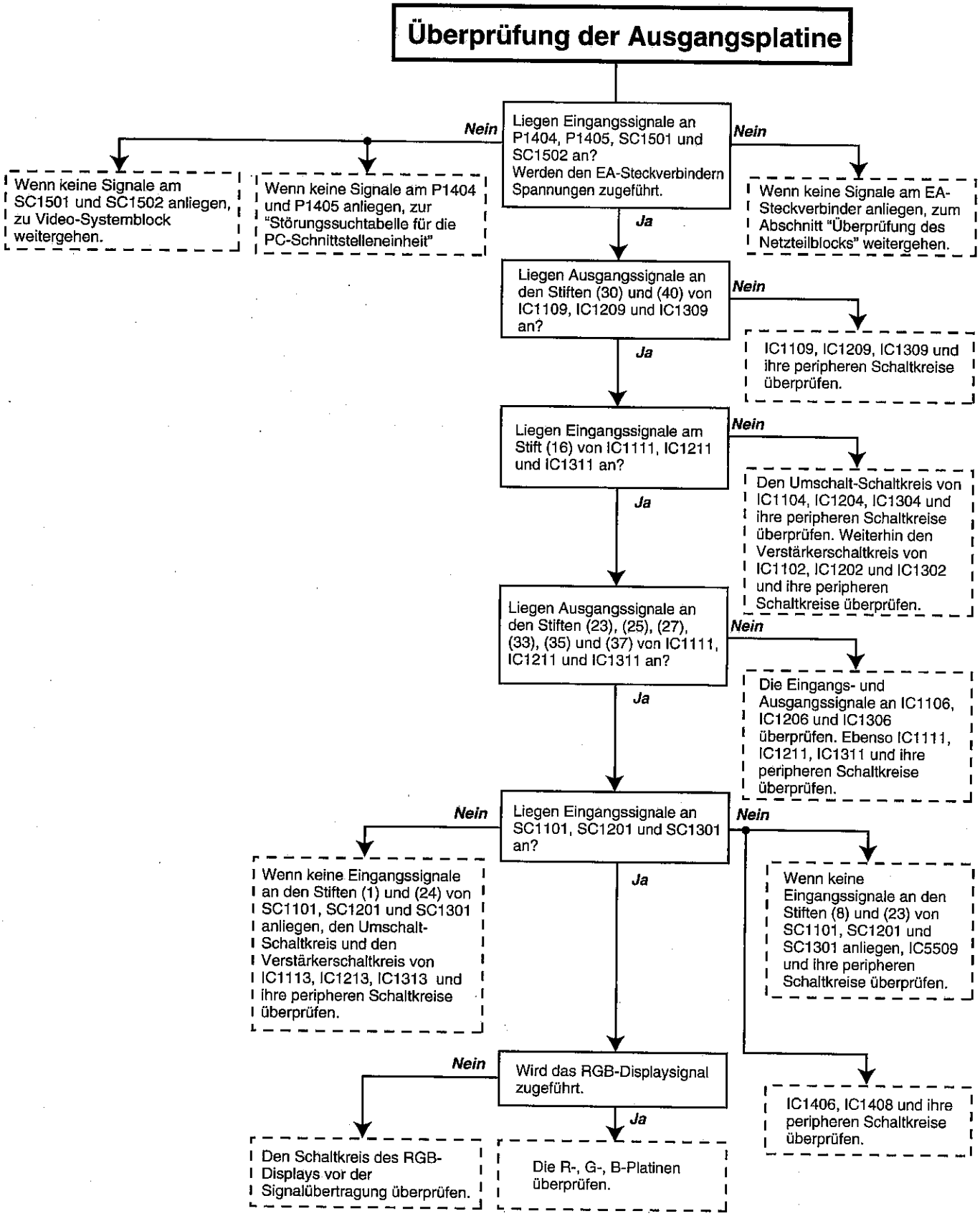
Keine oder ungewöhnliche Horizontal-Synchronisation


Liegen Horizontalsynchron-Ausgangssignale am Stift (56) von IC801 an?
Nein
IC801 und seine peripheren Schaltkreise überprüfen.
Ja
Liegen Horizontalsynchron-Ausgangssignale am Stift (9) von IC603 an?
Nein
Den Impulsbildungs-Schaltkreis von IC602 und IC603 überprüfen.
Ja
IC604 und seine peripheren Schaltkreise überprüfen und zur "Störungssuchtabelle für die PC-Schnittstelleneinheit" weitergehen.

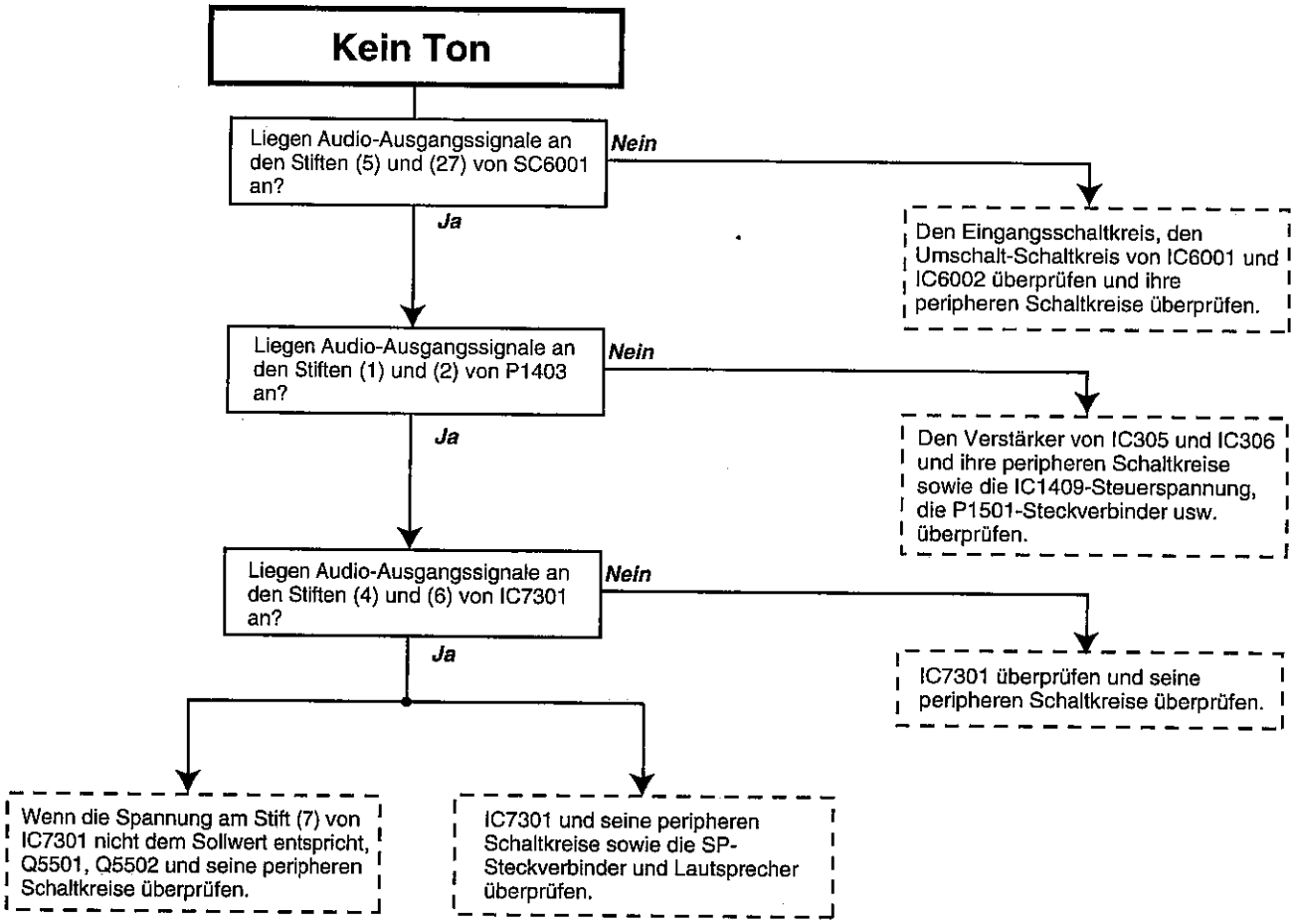
Keine oder ungewöhnliche Vertikal-Synchronisation


Liegen Vertikalsynchron-Ausgangssignale am Stift (4) von IC801 an?
Nein
IC801 und seine peripheren Schaltkreise überprüfen.
Ja
IC604 und seine peripheren Schaltkreise überprüfen und zur "Störungssuchtabelle für die PC-Schnittstelleneinheit" weitergehen.

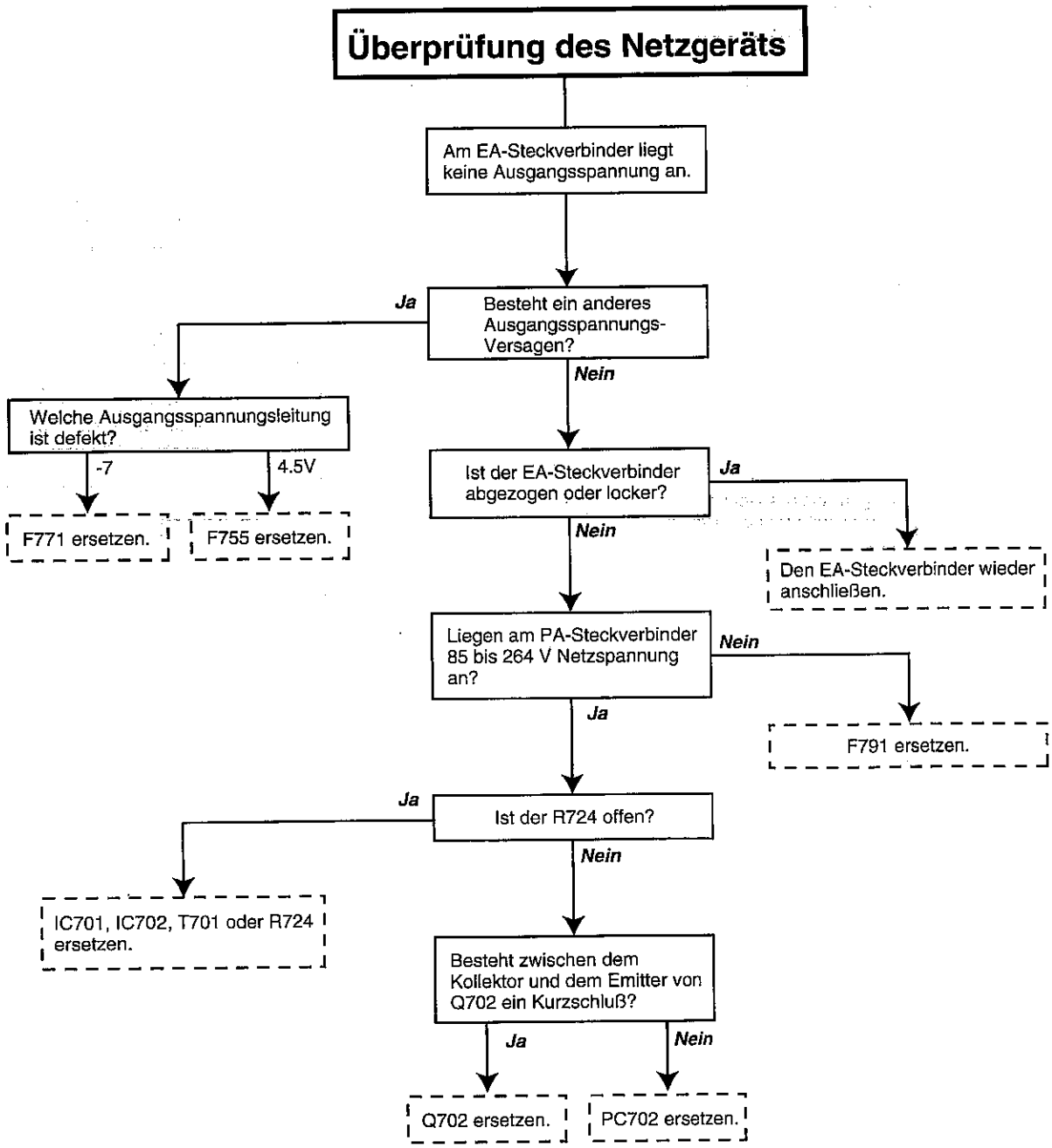
FEHLERSUCHTABELLE (Fortsetzung)


Überprüfung der Ausgangsplatine
Liegen Eingangssignale an P1404, P1405, SC1501 und SC1502 an? Werden den EA-Steckverbindern Spannungen zugeführt.
Nein
Wenn keine Signale am SC1501 und SC1502 anliegen, zu Video-Systemblock weitergehen.
Wenn keine Signale am P1404 und P1405 anliegen, zur "Störungssuchtabelle für die PC-Schnittstelleneinheit"
Nein
Wenn keine Signale am EA-Steckverbinder anliegen, zum Abschnitt "Überprüfung des Netzteilblocks" weitergehen.
Ja
Liegen Ausgangssignale an den Stiften (30) und (40) von IC1109, IC1209 und IC1309 an?
Nein
IC1109, IC1209, IC1309 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Eingangssignale am Stift (16) von IC1111, IC1211 und IC1311 an?
Nein
Den Umschalt-Schaltkreis von IC1104, IC1204, IC1304 und ihre peripheren Schaltkreise überprüfen. Weiterhin den Verstärkerschaltkreis von IC1102, IC1202 und IC1302 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Ausgangssignale an den Stiften (23), (25), (27), (33), (35) und (37) von IC1111, IC1211 und IC1311 an?
Nein
Die Eingangs- und Ausgangssignale an IC1106, IC1206 und IC1306 überprüfen. Ebenso IC1111, IC1211, IC1311 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Eingangssignale an SC1101, SC1201 und SC1301 an?
Nein
Wenn keine Eingangssignale an den Stiften (1) und (24) von SC1101, SC1201 und SC1301 anliegen, den Umschalt-Schaltkreis und den Verstärkerschaltkreis von IC1113, IC1213, IC1313 und ihre peripheren Schaltkreise überprüfen.
Nein
Wenn keine Eingangssignale an den Stiften (8) und (23) von SC1101, SC1201 und SC1301 anliegen, IC5509 und ihre peripheren Schaltkreise überprüfen.
Ja
Wird das RGB-Displaysignal zugeführt.
Nein
Den Schaltkreis des RGB-Displays vor der Signalübertragung überprüfen.
Ja
Die R-, G-, B-Platinen überprüfen.
IC1406, IC1408 und ihre peripheren Schaltkreise überprüfen.

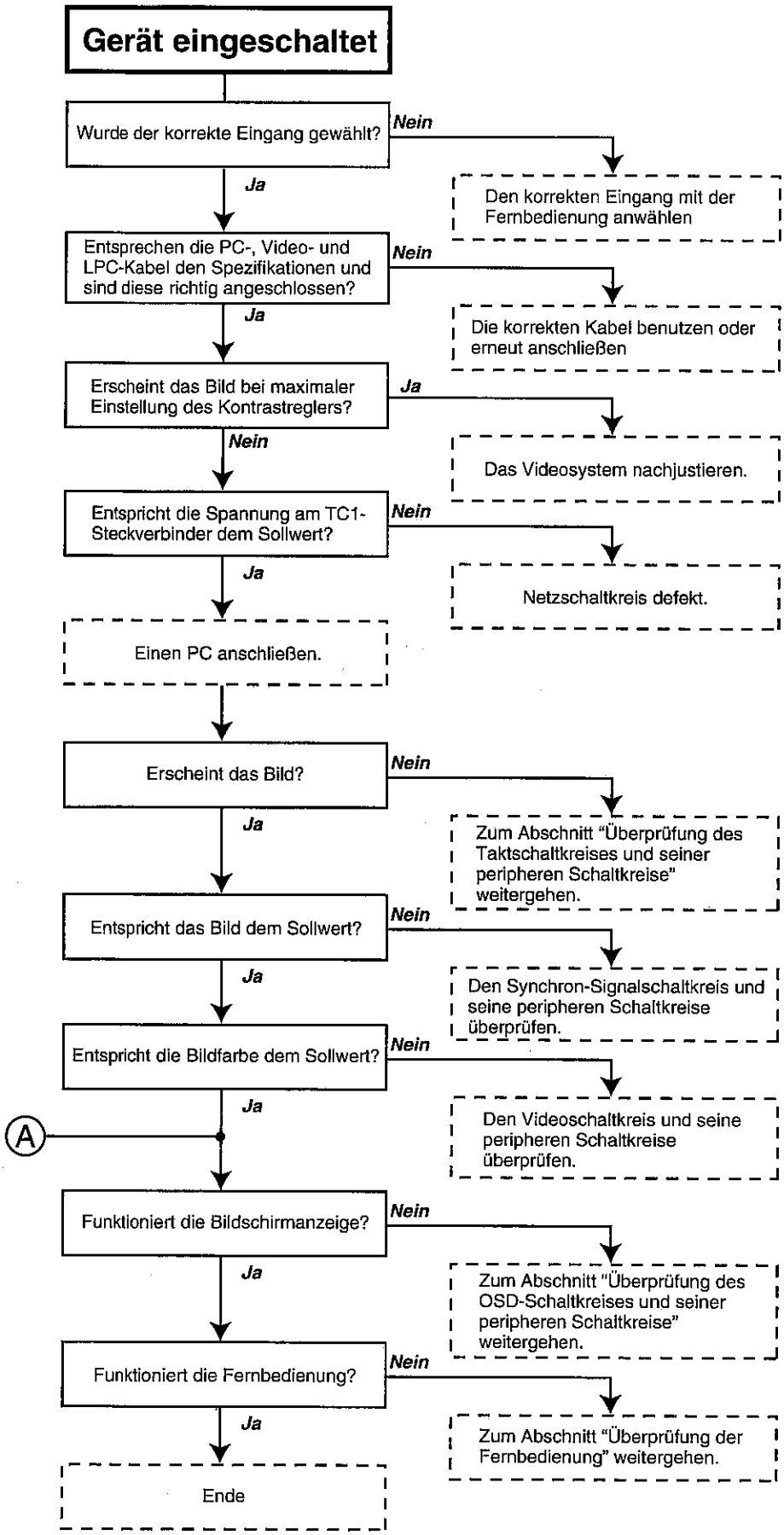
FEHLERSUCHTABELLE (Fortsetzung)


Kein Ton
Liegen Audio-Ausgangssignale an den Stiften (5) und (27) von SC6001 an?
Nein
Ja
Den Eingangsschaltkreis, den Umschalt-Schaltkreis von IC6001 und IC6002 überprüfen und ihre peripheren Schaltkreise überprüfen.
Liegen Audio-Ausgangssignale an den Stiften (1) und (2) von P1403 an?
Nein
Ja
Den Verstärker von IC305 und IC306 und ihre peripheren Schaltkreise sowie die IC1409-Steuerspannung, die P1501-Steckverbinder usw. überprüfen.
Liegen Audio-Ausgangssignale an den Stiften (4) und (6) von IC7301 an?
Nein
Ja
IC7301 überprüfen und seine peripheren Schaltkreise überprüfen.
Wenn die Spannung am Stift (7) von IC7301 nicht dem Sollwert entspricht, Q5501, Q5502 und seine peripheren Schaltkreise überprüfen.
IC7301 und seine peripheren Schaltkreise sowie die SP-Steckverbinder und Lautsprecher überprüfen.

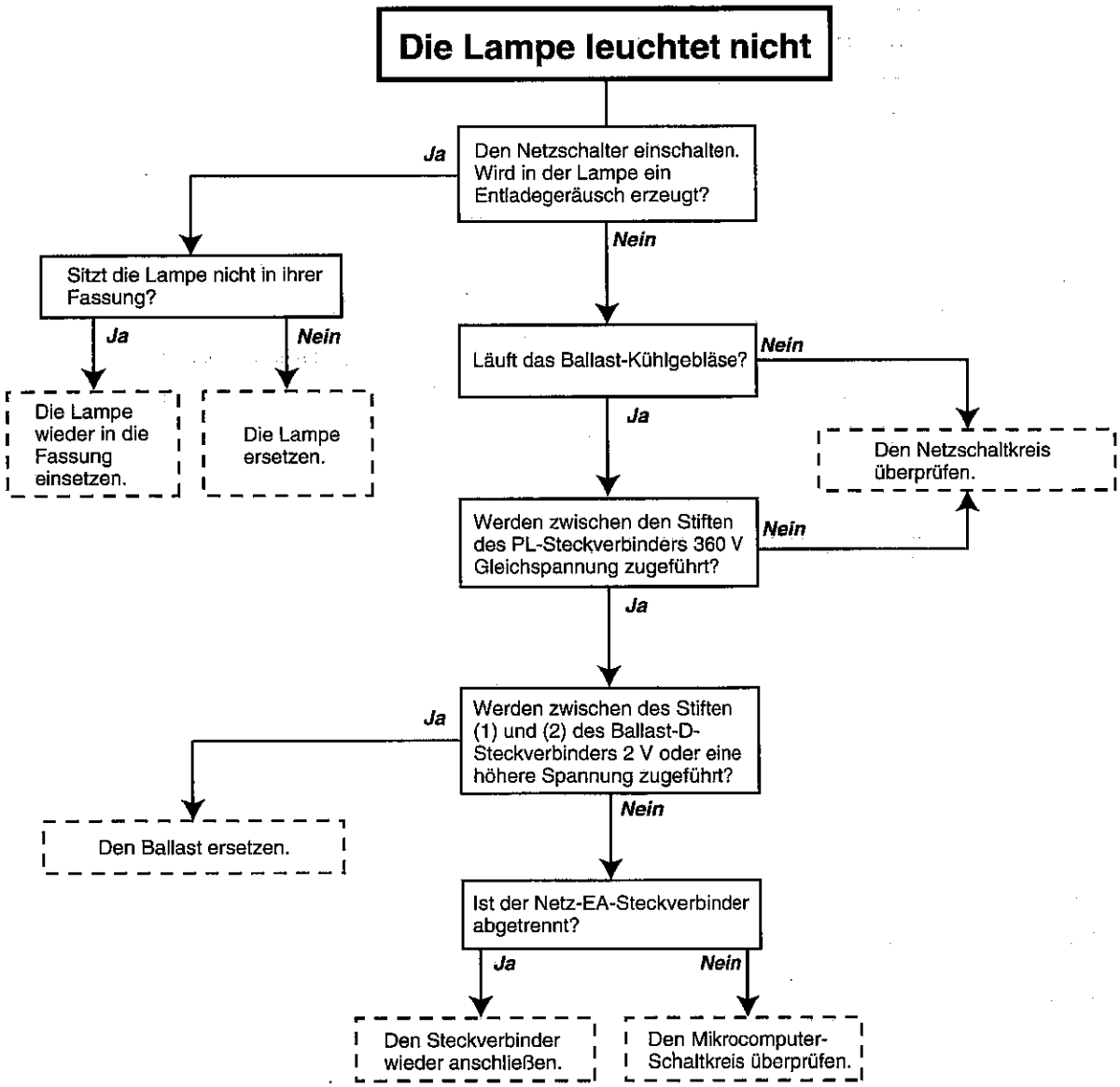
FEHLERSUCHTABELLE (Fortsetzung)



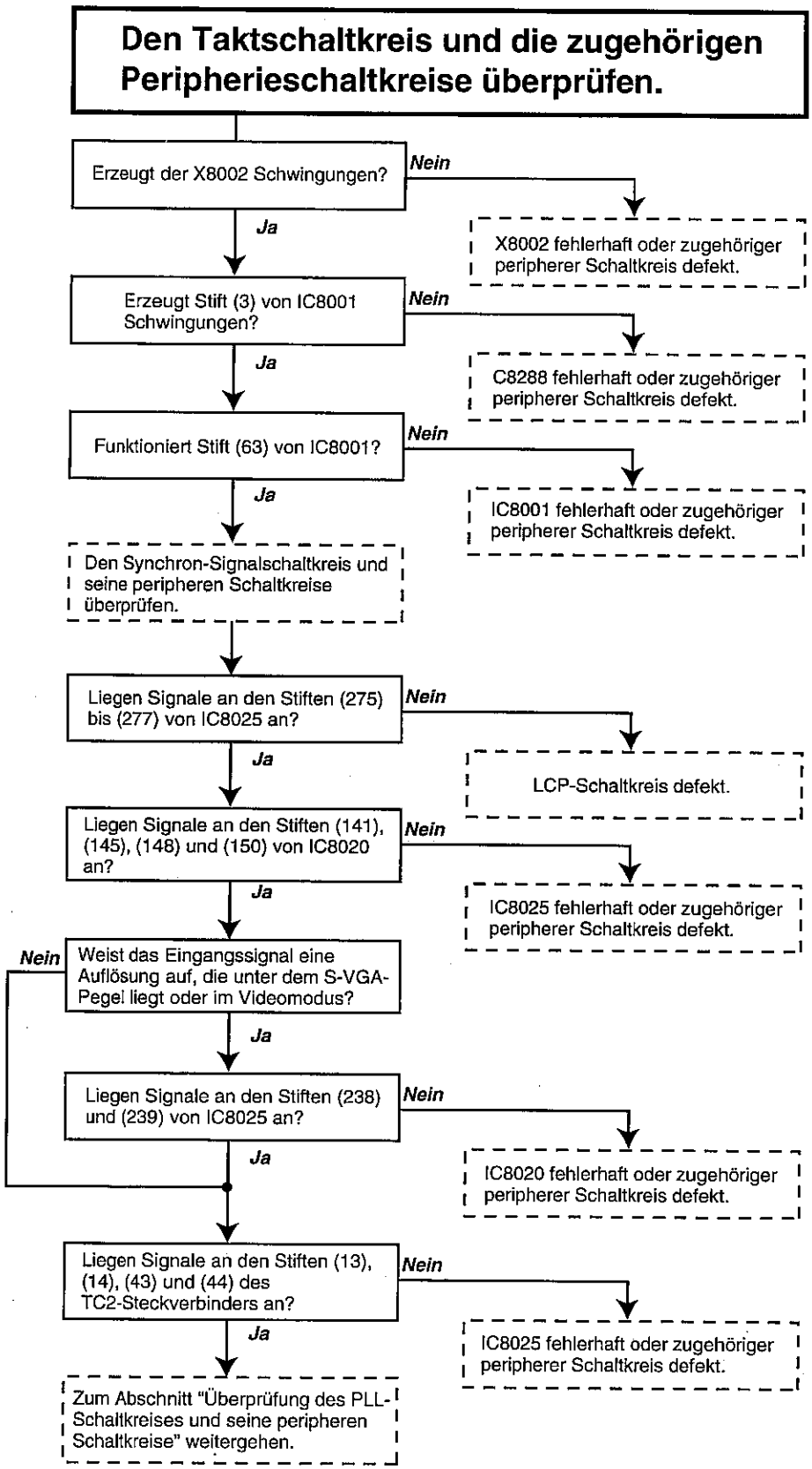
FEHLERSUCHTABELLE (Fortsetzung)



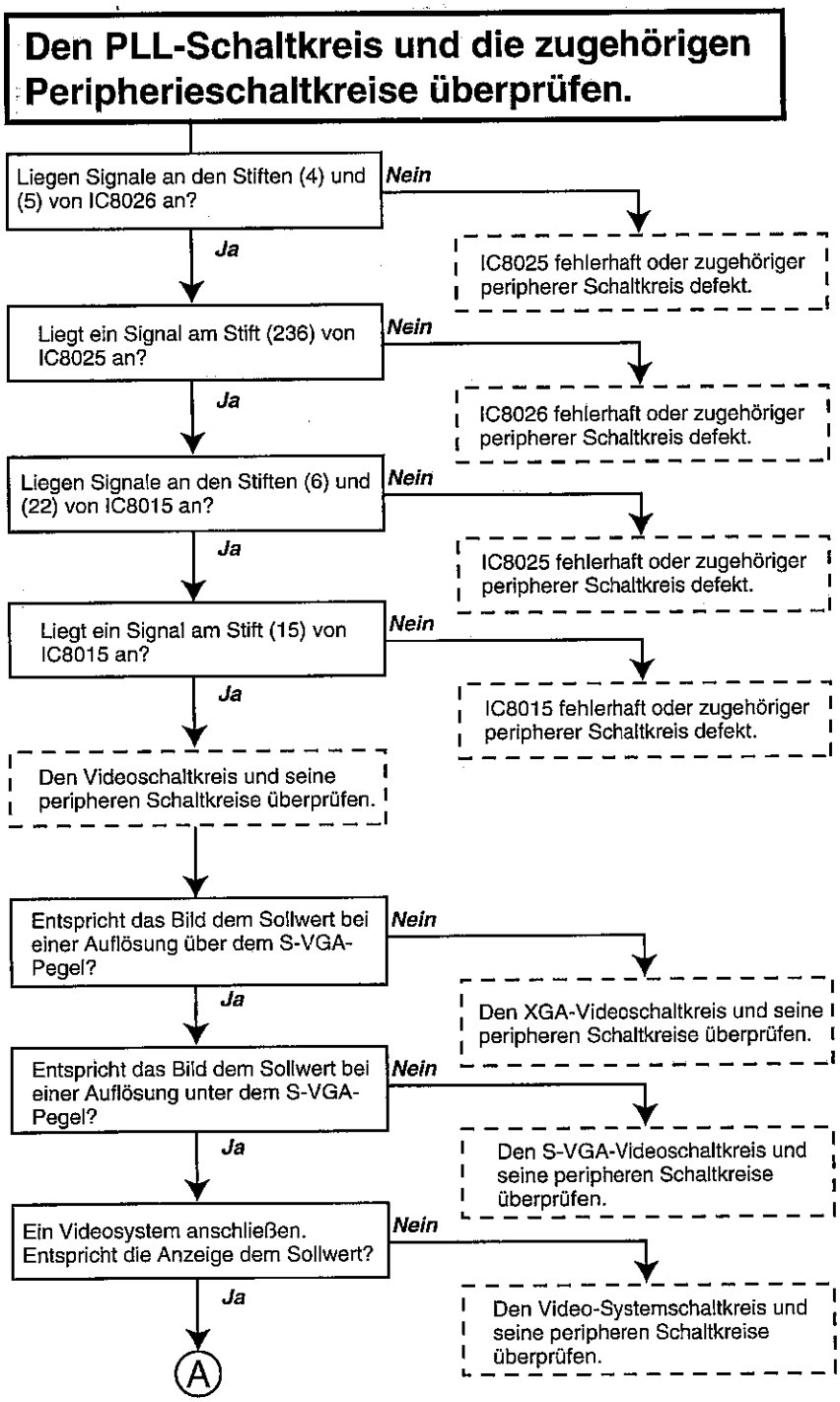
FEHLERSUCHTABELLE (Fortsetzung)



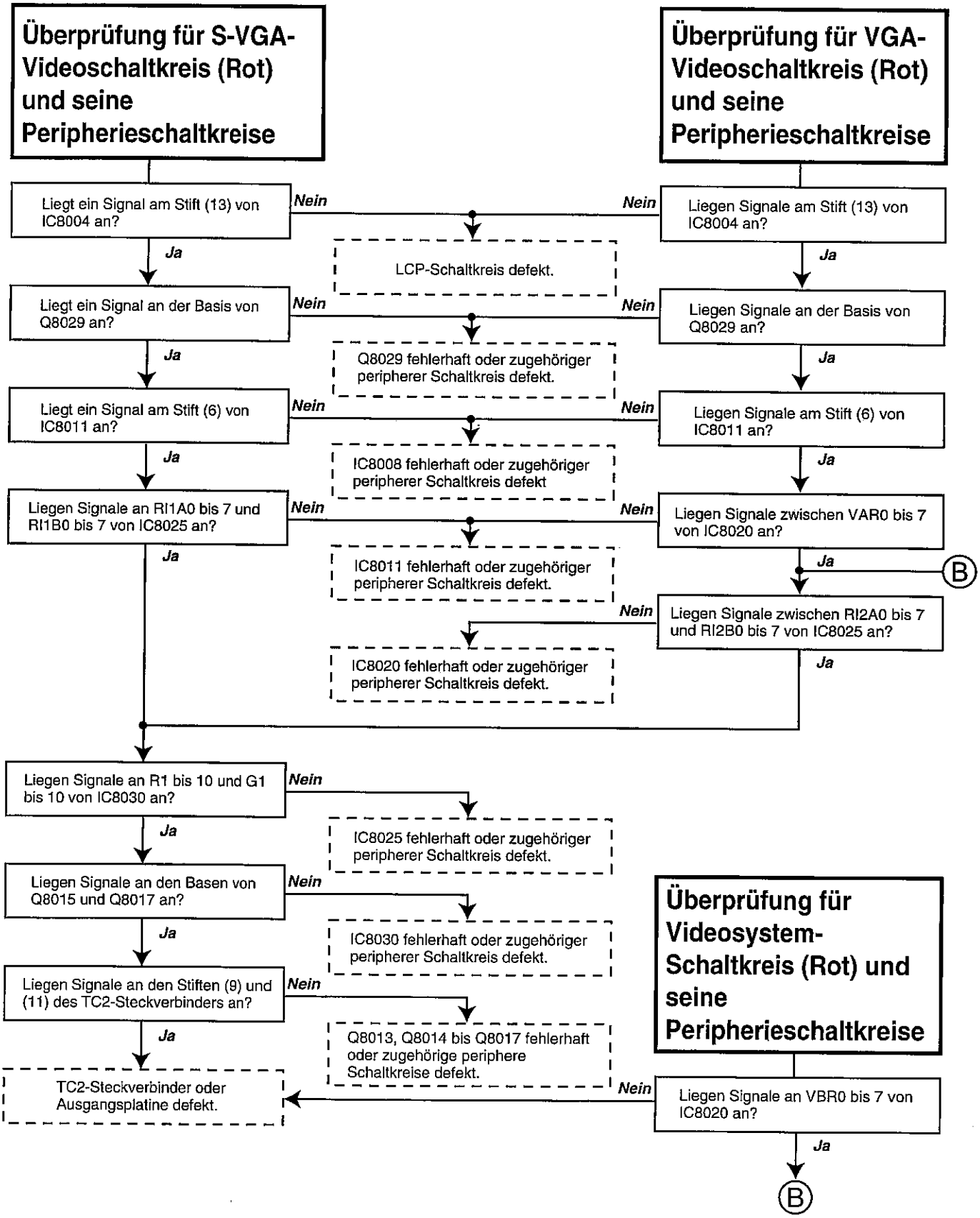
FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-1


Den Taktschaltkreis und die zugehörigen Peripherieschaltkreise überprüfen.
Erzeugt der X8002 Schwingungen?
Nein
X8002 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Erzeugt Stift (3) von IC8001 Schwingungen?
Nein
C8288 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Funktioniert Stift (63) von IC8001?
Nein
IC8001 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Den Synchron-Signalschaltkreis und seine peripheren Schaltkreise überprüfen.
Liegen Signale an den Stiften (275) bis (277) von IC8025 an?
Nein
LCP-Schaltkreis defekt.
Ja
Liegen Signale an den Stiften (141), (145), (148) und (150) von IC8020 an?
Nein
IC8025 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Nein
Weist das Eingangssignal eine Auflösung auf, die unter dem S-VGA-Pegel liegt oder im Videomodus?
Ja
Liegen Signale an den Stiften (238) und (239) von IC8025 an?
Nein
IC8020 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Liegen Signale an den Stiften (13), (14), (43) und (44) des TC2-Steckverbinders an?
Nein
IC8025 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Ja
Zum Abschnitt "Überprüfung des PLL-Schaltkreises und seine peripheren Schaltkreise" weitergehen.

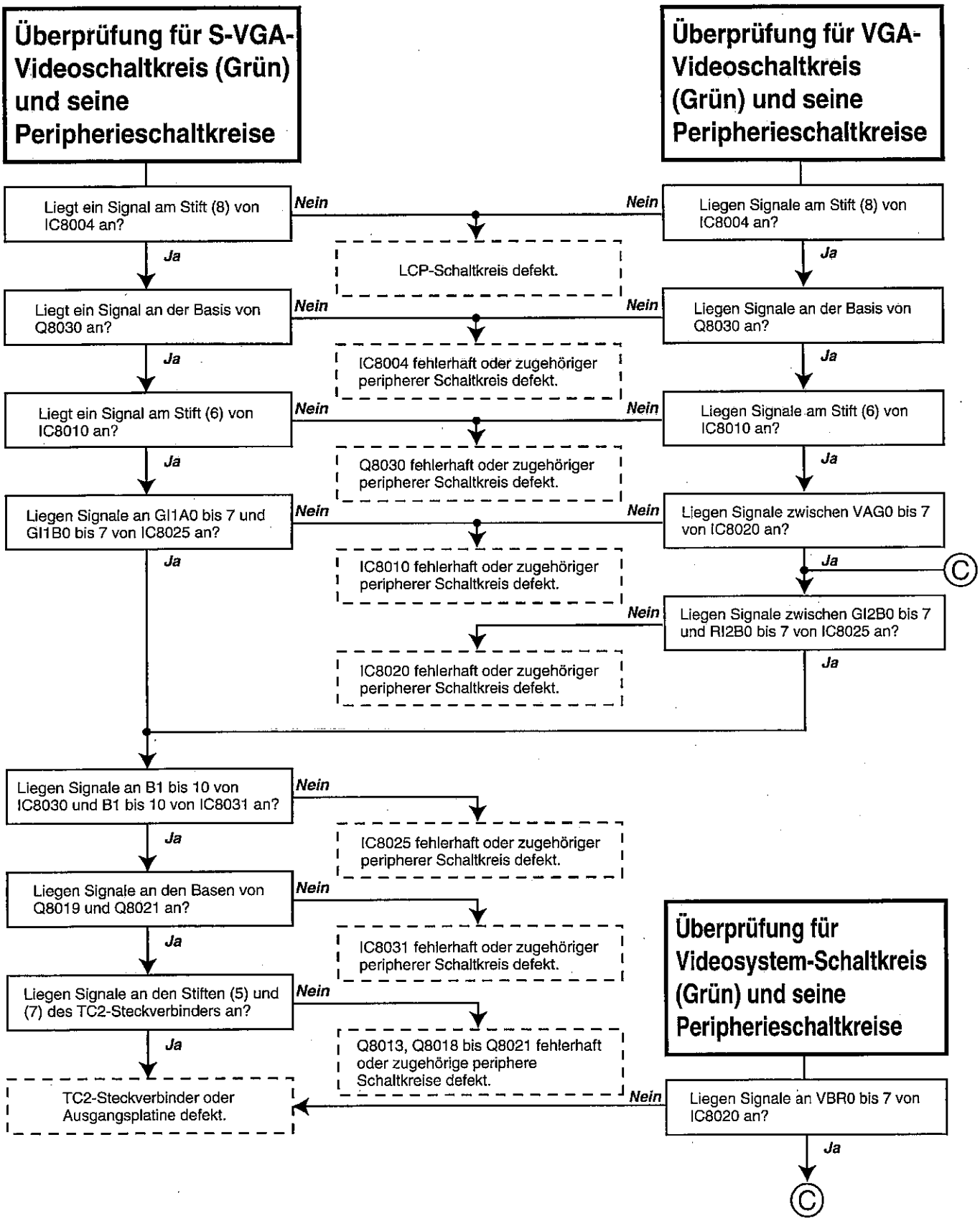
FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-2


Den PLL-Schaltkreis und die zugehörigen Peripherieschaltkreise überprüfen.
Liegen Signale an den Stiften (4) und (5) von IC8026 an?
Nein
Ja
IC8025 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegt ein Signal am Stift (236) von IC8025 an?
Nein
Ja
IC8026 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an den Stiften (6) und (22) von IC8015 an?
Nein
Ja
IC8025 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegt ein Signal am Stift (15) von IC8015 an?
Nein
Ja
IC8015 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Den Videoschaltkreis und seine peripheren Schaltkreise überprüfen.
Entspricht das Bild dem Sollwert bei einer Auflösung über dem S-VGA-Pegel?
Nein
Ja
Den XGA-Videoschaltkreis und seine peripheren Schaltkreise überprüfen.
Entspricht das Bild dem Sollwert bei einer Auflösung unter dem S-VGA-Pegel?
Nein
Ja
Den S-VGA-Videoschaltkreis und seine peripheren Schaltkreise überprüfen.
Ein Videosystem anschließen. Entspricht die Anzeige dem Sollwert?
Nein
Ja
Den Video-Systemschaltkreis und seine peripheren Schaltkreise überprüfen.
A

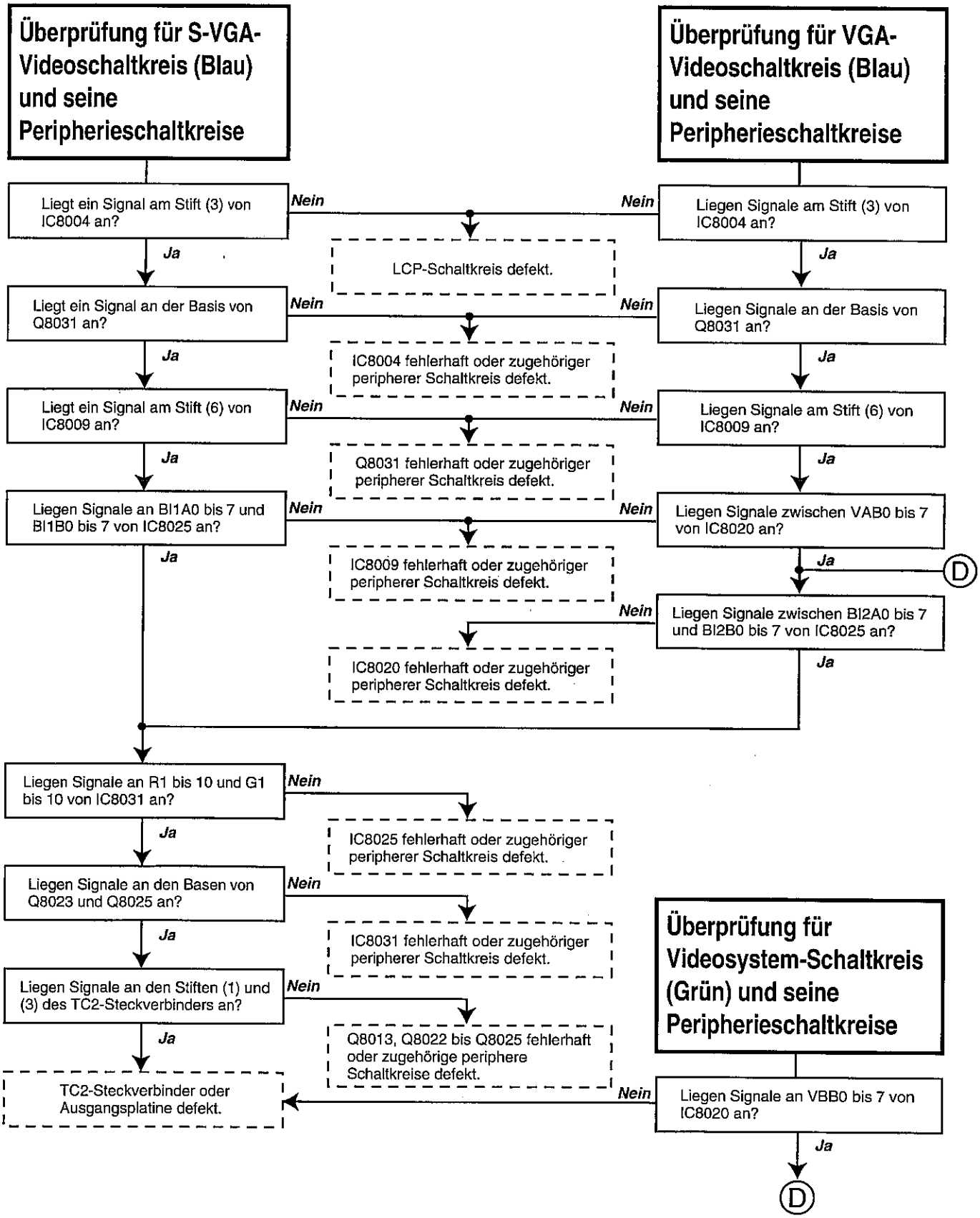
FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-3


Überprüfung für S-VGA-Videoschaltkreis (Rot) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (13) von IC8004 an?
Nein
Ja
LCP-Schaltkreis defekt.
Liegt ein Signal an der Basis von Q8029 an?
Nein
Ja
Q8029 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegt ein Signal am Stift (6) von IC8011 an?
Nein
Ja
IC8008 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt
Liegen Signale an RI1A0 bis 7 und RI1B0 bis 7 von IC8025 an?
Nein
Ja
IC8011 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an R1 bis 10 und G1 bis 10 von IC8030 an?
Nein
Ja
IC8025 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an den Basen von Q8015 und Q8017 an?
Nein
Ja
IC8030 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an den Stiften (9) und (11) des TC2-Steckverbinders an?
Nein
Ja
Q8013, Q8014 bis Q8017 fehlerhaft oder zugehörige periphere Schaltkreise defekt.
TC2-Steckverbinder oder Ausgangsplatine defekt.
Überprüfung für VGA-Videoschaltkreis (Rot) und seine Peripherieschaltkreise
Liegen Signale am Stift (13) von IC8004 an?
Nein
Ja
Liegen Signale an der Basis von Q8029 an?
Nein
Ja
Liegen Signale am Stift (6) von IC8011 an?
Nein
Ja
Liegen Signale zwischen VAR0 bis 7 von IC8020 an?
Nein
Ja
B
Liegen Signale zwischen RI2A0 bis 7 und RI2B0 bis 7 von IC8025 an?
Nein
Ja
IC8020 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Überprüfung für Videosystem-Schaltkreis (Rot) und seine Peripherieschaltkreise
Liegen Signale an VBR0 bis 7 von IC8020 an?
Nein
Ja
B

FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-4

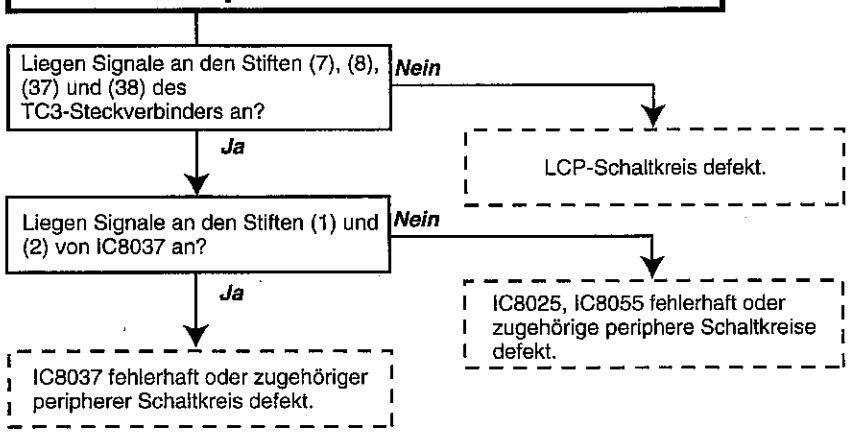

Überprüfung für S-VGA-Videoschaltkreis (Grün) und seine Peripherieschaltkreise
Überprüfung für VGA-Videoschaltkreis (Grün) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (8) von IC8004 an?
Liegen Signale am Stift (8) von IC8004 an?
Nein
Ja
LCP-Schaltkreis defekt.
Liegt ein Signal an der Basis von Q8030 an?
Liegen Signale an der Basis von Q8030 an?
IC8004 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegt ein Signal am Stift (6) von IC8010 an?
Liegen Signale am Stift (6) von IC8010 an?
Q8030 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an GI1A0 bis 7 und GI1B0 bis 7 von IC8025 an?
Liegen Signale zwischen VAG0 bis 7 von IC8020 an?
IC8010 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale zwischen GI2B0 bis 7 und RI2B0 bis 7 von IC8025 an?
IC8020 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an B1 bis 10 von IC8030 und B1 bis 10 von IC8031 an?
IC8025 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an den Basen von Q8019 und Q8021 an?
IC8031 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an den Stiften (5) und (7) des TC2-Steckverbinders an?
Q8013, Q8018 bis Q8021 fehlerhaft oder zugehörige periphere Schaltkreise defekt.
TC2-Steckverbinder oder Ausgangsplatine defekt.
Überprüfung für Videosystem-Schaltkreis (Grün) und seine Peripherieschaltkreise
Liegen Signale an VBR0 bis 7 von IC8020 an?
Ⓒ

FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-5

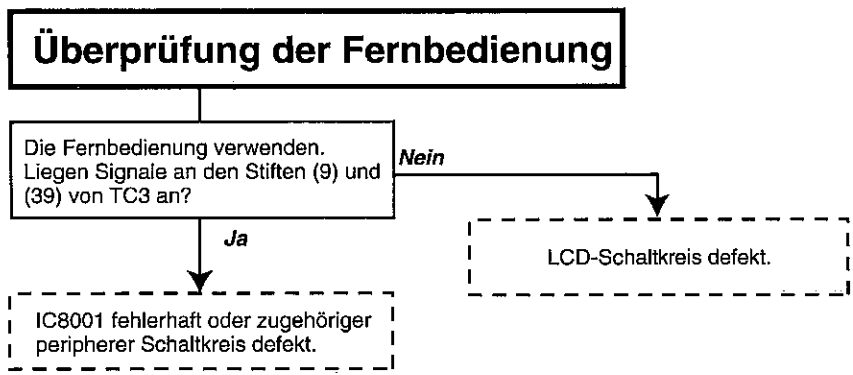

Überprüfung für S-VGA-Videoschaltkreis (Blau) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (3) von IC8004 an?
Nein
Ja
LCP-Schaltkreis defekt.
Liegt ein Signal an der Basis von Q8031 an?
Nein
Ja
IC8004 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegt ein Signal am Stift (6) von IC8009 an?
Nein
Ja
Q8031 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an BI1A0 bis 7 und BI1B0 bis 7 von IC8025 an?
Nein
Ja
IC8009 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
IC8020 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an R1 bis 10 und G1 bis 10 von IC8031 an?
Nein
Ja
IC8025 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an den Basen von Q8023 und Q8025 an?
Nein
Ja
IC8031 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.
Liegen Signale an den Stiften (1) und (3) des TC2-Steckverbinders an?
Nein
Ja
Q8013, Q8022 bis Q8025 fehlerhaft oder zugehörige periphere Schaltkreise defekt.
TC2-Steckverbinder oder Ausgangsplatine defekt.
Überprüfung für VGA-Videoschaltkreis (Blau) und seine Peripherieschaltkreise
Liegen Signale am Stift (3) von IC8004 an?
Nein
Ja
Liegen Signale an der Basis von Q8031 an?
Nein
Ja
Liegen Signale am Stift (6) von IC8009 an?
Nein
Ja
Liegen Signale zwischen VAB0 bis 7 von IC8020 an?
Nein
Ja
D
Liegen Signale zwischen BI2A0 bis 7 und BI2B0 bis 7 von IC8025 an?
Nein
Ja
Überprüfung für Videosystem-Schaltkreis (Grün) und seine Peripherieschaltkreise
Liegen Signale an VBB0 bis 7 von IC8020 an?
Nein
Ja
D

FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-6

Überprüfung für OSD-Schaltkreis und seiner Peripherieschaltkreise


Liegen Signale an den Stiften (7), (8), (37) und (38) des TC3-Steckverbinders an?
Nein
LCP-Schaltkreis defekt.
Ja
Liegen Signale an den Stiften (1) und (2) von IC8037 an?
Nein
IC8025, IC8055 fehlerhaft oder zugehörige periphere Schaltkreise defekt.
Ja
IC8037 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.

Überprüfung der Fernbedienung


Die Fernbedienung verwenden. Liegen Signale an den Stiften (9) und (39) von TC3 an?
Nein
LCD-Schaltkreis defekt.
Ja
IC8001 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.

保养维修人员须知

紫外线辐射注意事项

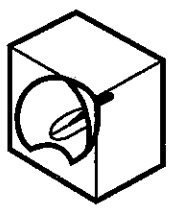
本液晶投影机的光源—金属检卤灯使用时会产生少量的紫外线辐射。

防止眼睛和皮肤的直接曝射

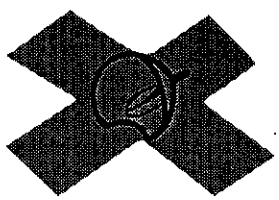
为保证安全，务请遵守下列注意事项：

1. 揭去投影机顶盖并打开金属检卤灯进行检查维修时，务请戴用太阳墨镜。

2. 切勿随意修弄金属检齿灯灯室外壳。



3. 揭去投影机顶盖的保养维修不得超过 2 小时以上。



紫外线辐射与中压灯的注意事项

1. 更换中压灯前，请先拔除电源插头。
2. 保养维修该装置前，请先让其冷却一小时以上。
3. 更换中压灯只得用同类型号者:
   型号 CLMPF0056DE01 或 BQC-XGNV6XE/1,
   额定值 65V/150W。
4. 该灯点亮时有少量紫外线辐射发生、切勿直接曝照裸眼。
5. 中压灯有引起爆炸之危险。安装，保养及维修时，务请按下述要求谨慎处理之。

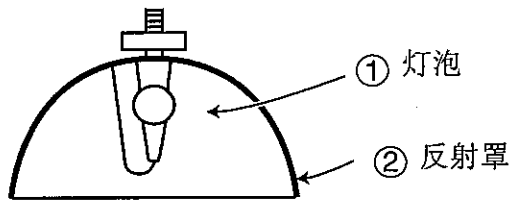
■ 金属检卤灯的更换

注意:

该灯于点亮时所达温度极高。因此，更换该灯至少应在关灯后一小时再进行。（让该灯充分冷却。）

用手安装新灯时，只得抓握检卤灯反射罩②进行安装，切勿用手触碰灯泡电珠。

[更换新灯只得用规定正品。]



危险！ 一没安装金属检卤灯时，不得打开电源开关。因为引入电源后，稳压器便随即发生极高的电压，足以引起人身高压触电或装置损坏的危险。

揭开机壳进行维修时，少量的紫外线可从导管盖和灯室间的开口处辐射而出。因此，必须用镜头盖按下图（图1）所示遮住导管盖和灯室间的开口，以防紫外线辐射造成眼睛或皮肤的受伤。

注意：对未附带镜头盖的型号 XG-NV21SE/SM/SA，作保养及检修时，必须先准备镜头盖，盖上后进行之。

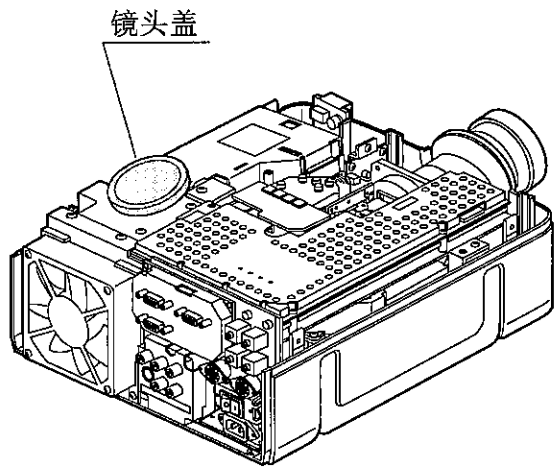


图 -1

規格

產品類型	液晶投影機
型號	XG-NV21SE/SM/SA
制式	PAL/SECAM/NTSC 3.58/NTSC 4.43
顯示方法	3 塊液晶板，RGB 三色光學遮板方法
液晶顯示板	尺寸：33.0 毫米（1.3 英吋）（19.8 [高]×26.4 [寬] 毫米） 顯示方法：半透明 TN 液晶板 驅動方法：TFT（薄膜晶管體）活性矩陣板 像素數量：485,616 點（804 [水平]×604 [垂直]）
鏡頭	1～1.6 變焦鏡頭 F2.5 至 3.6，f=47 至 76 毫米
投影燈泡	150 瓦 UHP 燈泡
反差比	200：1
視頻輸入訊號	RCA 連接器：視頻，複合視頻，峰間值 1.0 伏，負同步，75 歐姆終端 RCA 連接器：聲頻，0.5 伏有效值，大於 22 千歐姆（立體聲）
S-視頻輸出訊號	4 芯小型 DIN 連接插頭 Y（亮度訊號）：峰間值 1.0 伏，負同步，75 歐姆終端 C（色度訊號）：脈衝峰間值 0.286 伏，75 歐姆終端
水平解像度	580 電視線（視頻輸入）
聲頻輸出	2 瓦十2 瓦（立體聲）
電腦 RGB 輸入訊號	視頻訊號： 15 芯小型 D-Sub 連接插頭（RGB 1、2）： 紅綠藍分離型類比輸入： 峰間值 0～0.7 伏，正極，75 歐姆終端 立體聲小型插頭：聲頻，0.5 伏有效值，大於 22 千歐姆，（立體聲） 水平同步訊號：三極管電平（正極／負極）或混合同步（僅限 Apple） 垂直同步訊號：同上

電腦控制線（隨機附送）	
RS-232C 輸入端子	控制個人電腦用 9 芯 D-Sub 凸型連接插頭
滑鼠輸入端子（IBM/Mac 用）	無線滑鼠用 9 芯 D-Sub 凹型連接插頭
滑鼠輸入端子（PC98 用）	無線滑鼠用 9 芯小型 DIN 連接插頭

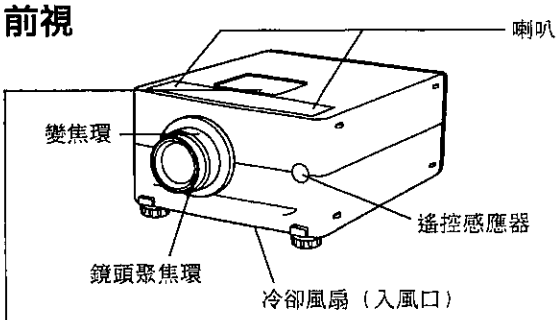
喇叭系統	7×4 厘米（2.8×1.6 英寸）橢圓形×2
電壓	交流 110～120/200～240 伏
電頻	50/60 赫
耗電量	250 瓦
工作溫度	攝氏 5 度～40 度
儲藏溫度	攝氏零下 20 度～60 度
外殼	塑膠
I/R 載波頻率	40 千赫
遙控器輻射指示器	波長：670 毫微米 最大輸出：1 毫瓦 II 級輻射產品
尺寸（寬×深×高）	261×329×155 mm（不包括鏡頭）
重量	6.6 公斤
隨機附件	遙控器、4 枚 AA 型電池、後備空氣過濾器、RGB 訊號線（3 公尺）、電腦控制線（1 公尺）、用於 IBM PS/2 的滑鼠控制線（15 公分）、用於Mac 的滑鼠控制線（15 公分）、滑鼠控制線（3 公尺）、電腦聲頻線、交流電源線、鏡頭蓋（已裝上）
替換零件	遙控器 (RRMCG1415CESA:XG-NV21SE/SM)、(RRMCG1437CESA:XG-NV21SA)、空氣過濾器 (PFILD0080CEZZ)、RGB訊號線 (QCNW-5050CEZZ)、電腦控制線 (CTANZ0711CE01)、用於 IBM PS/2 的滑鼠控制線 (QCNW-4754CEZZ)、用於 Mac 的滑鼠控制線 (QCNW-4755CEZZ)、滑鼠控制線 (QCNW-4620CEZZ)、電腦聲頻線 (QCNW-4870CEZZ)、交流電源線

本投影機使用 LCD（液晶顯示）板。這些非常精密的顯示板每塊都含有 485,616 點 (×RGB) 個 TFT（薄膜晶管體）。
任何高技術電子設備，如大屏幕電視機、錄影系統及攝影機等，都有該設備必須符合的一定誤差範圍存在。本投影機在一定的容許範圍之內也有若干不起作用的 TFT，即可能在屏幕上造成亮點或不起作用的黑點。這並不影響影像質量或投影機的使用壽命。

規格參數若有變更，恕不另行通知。

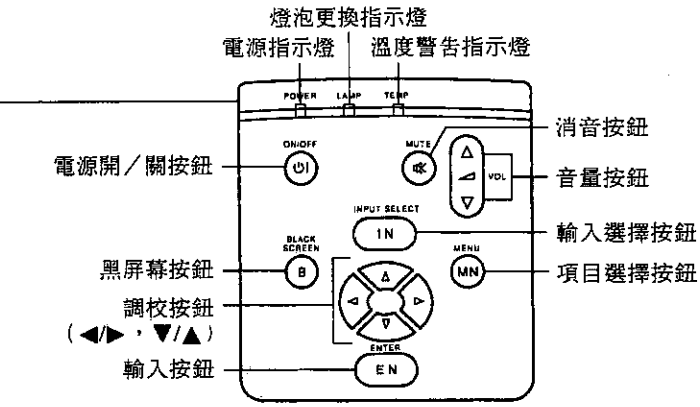
控制按鈕的位置

前視

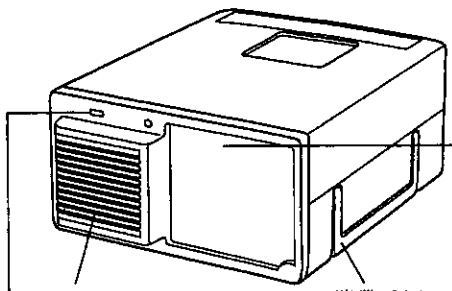


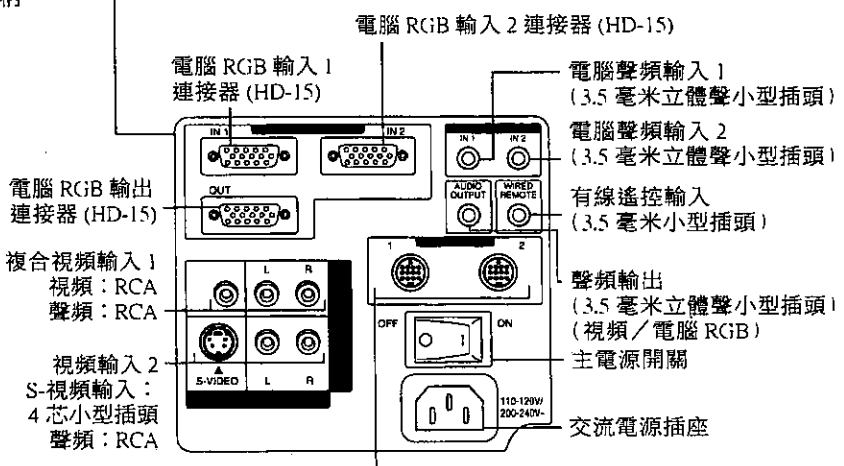
注意：
- 在使用投影機時，通風孔、燈箱蓋及其週圍的部分會變得非常熱。未充分冷卻之前切勿觸摸這些部分，以免引起燙傷。
- 放置投影機時，要使冷卻風扇（出風口）與最近的牆壁或阻礙物體保持 10 厘米以上的距離。
- 如果冷卻風扇被堵塞，機內的保護電路就會啟動，投影機燈泡隨之便熄滅。這種情況不屬於故障。只要將電源插頭從插座上拔出，並等待 10 分鐘，再將電源插上，投影機即可恢復正常功能。

投影機頂部操作板



側面和背面





安全鎖定鈕
本投影機裝有肯辛頓保安標準 (Kensington Security Standard) 連接器，可用於裝有肯辛頓微存保安系統 (Kensington MicroSaver Security System) 的設備。關於如何用它來實現本投影機的保安，請參閱隨同該系統所提供的資料。

註：
- 連接 PC CONTROL（電腦控制）端子時，請務必使用電腦控制電線。

- PC CONTROL 1（電腦控制 1）：
  將遙控器作為無線滑鼠使用時，或者從 RS-232C 端子控制投影機時，使用隨機附送的電腦控制電線。
- PC CONTROL 2（電腦控制 2）：
  將遙控器作為無線滑鼠使用時，使用電腦控制電線 (CTANZ0711CE01)（另外購買）。

註：
- 當連接到 PC CONTROL 2（電腦控制 2）時，RS-232C 不起作用。

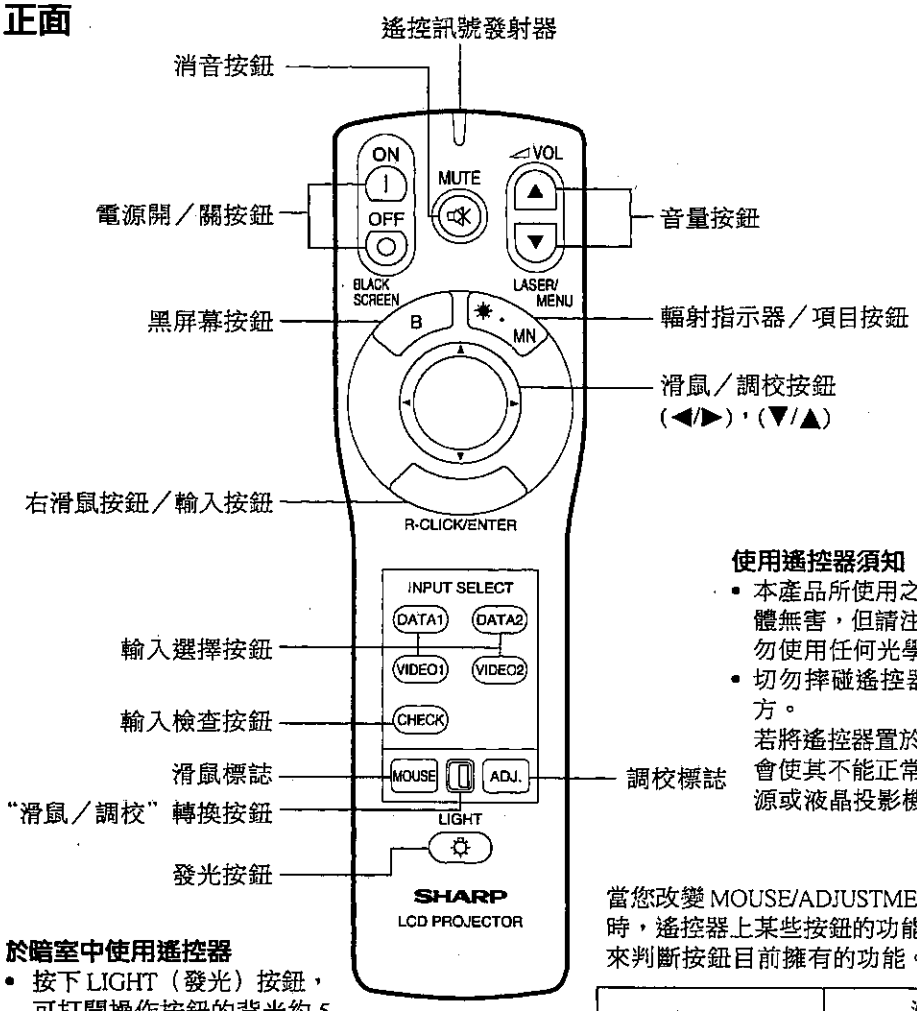
無線滑鼠遙控器的操作說明

電腦的滑鼠的功能，已經裝備於遙控器之中，因此可以使用遙控器操作投影機和電腦。

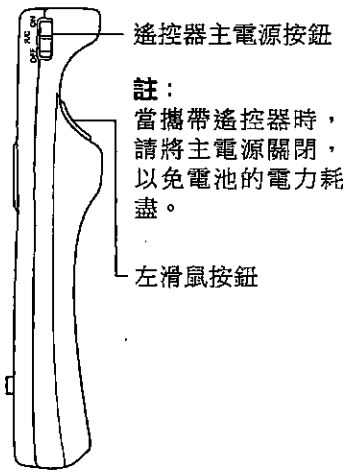
1. 將機身背面的主電源按鈕打開。
2. 按下遙控器前端面板上的 POWER ON（電源開啟）按鈕，打開投影機電源。
3. 遙控器可依照轉換按鈕的設定來發揮其中一種功能。當您將遙控器作為無線滑鼠來使用時，請將“滑鼠／調校”(MOUSE/ADJUSTMENT) 的轉換按鈕轉換至“滑鼠”(MOUSE) 位置。當您使用遙控器來操作投影機時，請將“滑鼠／調校”(MOUSE/ADJUSTMENT) 的轉換按鈕轉換至“調校”(ADJ.) 位置。如果想要啟動遙控器按鍵背後發光功能，可按下遙控器上的 LIGHT（發光）按鈕。以各按鈕的功能顏色顯示參見本頁右下方之附表。

無線滑鼠遙控器

正面



側面



註：
當攜帶遙控器時，請將主電源關閉，以免電池的電力耗盡。

使用遙控器須知

- 本產品所使用之輻射光在直接照射於皮膚上時對人體無害，但請注意勿將光束對著眼睛直接照射。請勿使用任何光學器材對著光束直視。
- 切勿摔碰遙控器，勿使其沾水或放置在潮濕的地方。
  若將遙控器置於陽光直射或其他強光照射環境下，會使其不能正常操作。出現此種情形時，請改變光源或液晶投影機的位置。

於暗室中使用遙控器

- 按下 LIGHT（發光）按鈕，可打開操作按鈕的背光約 5 秒鐘。背光的顏色請見右表。

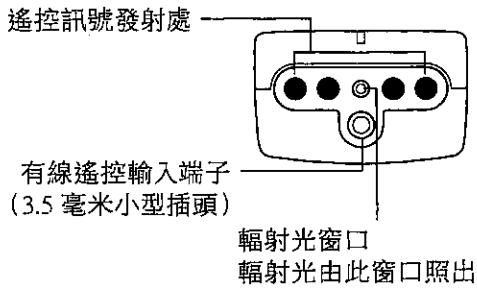
註：

- 如果遙控器上的 MAIN POWER（主電源）開關處於開啟狀態而且持續 10 分鐘以上未操控遙控器時，則電源就會自動關閉。若要重新開啟電源，只需將遙控器上之任一按鈕持續按住 1 秒鐘以上即可。

當您改變 MOUSE/ADJUSTMENT（滑鼠／調校）轉換按鈕之設定時，遙控器上某些按鈕的功能會改變。您可由其背光顯示的顏色來判斷按鈕目前擁有的功能。

按鈕名稱	滑鼠／調校轉換按鈕之位置	
	滑鼠	調校
輻射指標／項目	輻射指標（綠）	選擇項目（紅）
右滑鼠／輸入	右滑鼠（綠）	輸入（紅）
滑鼠／調校	滑鼠（不亮）	調校 ◀/▶，▼/▲（不亮）
左滑鼠	開（不亮）	—
黑屏幕	開（紅）	
開關		
音量		
消音		
DATA 1		
DATA 2		
視頻 1		
視頻 2		
輸入檢查		

頂部



使用額外接線連接遙控器

- 當遙控器因投影機的設置距離或位置而導致不能正常操控時（例如，處於後投射模式時），可將額外選購的接線從遙控器上的有線遙控輸入插口連接到投影機背面的有線遙控輸入端子。

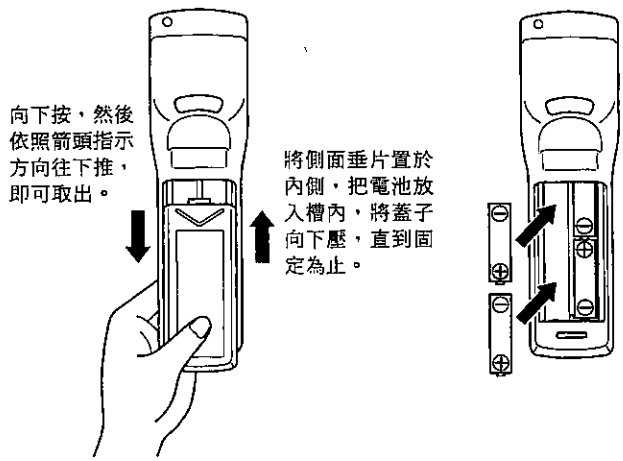
註：

- 用額外接線連接遙控器時，訊號發射處不能發揮功能。

LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT	RADIACION LASER NO MIRE AL RAYO PRODUCTO LASER CLASE 2
RAYONNEMENT LASER NE PAS REGARDER DANS LE FAISCEAU APPAREIL À LASER DE CLASSE 2	

遙控器附有一輻射指示器，會從圖片所示之輻射光窗口中射出 II 級輻射光束。請勿直視光束、或將輻射光對準他人照射。以上兩種標示為有關輻射光之警告標示。
使用輻射指示器時，務必在溫度於 5℃ 和 40℃ 之間使用。

背面



安裝電池

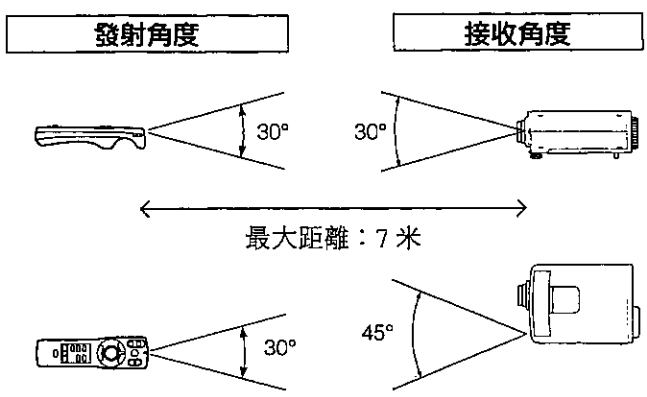
如圖所示卸下電池蓋，裝入 4 枚 AA 型電池。請注意電池之極性必須符合電池槽內之 (十) 和 (一) 的標記。

註：

電池使用不當會造成漏液或爆裂。

- 插入電池時必須使其極性與電池槽內標出的極性 (十)、(一) 一致。
- 若長期不使用遙控器，應將電池取出。
- 請保持電池的清潔。
- 切勿將商標不同的電池混合使用。新舊電池的混合使用會使新電池的壽命縮短，而舊電池則會漏液。
- 當電池耗盡之後，應立刻取出以防漏液對遙控器造成損壞。漏出的電池液體會刺激皮膚，應用布擦拭。
- 由於隨機附送的電池受存放條件及存放時間影響，可能會在短時間內用完。應盡早更換新的電池。

遙控器的操作角度



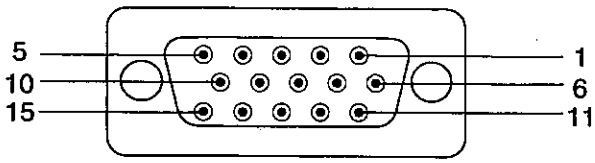
遙控器的操作角度按左圖所示。

註：

- 為方便操作，遙控器所發出之訊號可利用屏幕反射。但訊號之有效距離可能因屏幕材質而有所不同。

連接芯的作用

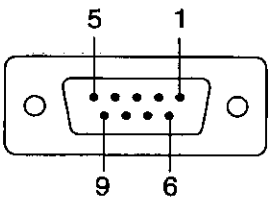
模擬 RGB1 和 RGB2 訊號輸入、以及模擬 RGB 輸出端子：15 芯小型 D-Sub 凹型接頭



電腦輸入
模擬

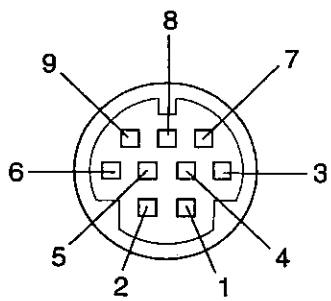
1	視頻輸入（紅）	9	沒有連接
2	視頻輸入（綠）	10	GND
3	視頻輸入（藍）	11	GND
4	備用輸入 1	12	雙方向數據
5	混合同步（僅 Mac 適用）	13	水平同步訊號
6	地面（紅）	14	垂直同步訊號
7	地面（綠）	15	數據時鐘
8	地面（藍）		

滑鼠輸入端子（IBM/Mac 用）：9 芯 D-Sub 凹型接頭



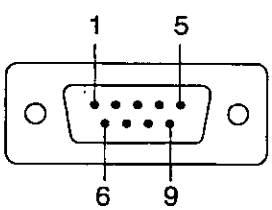
芯號	訊號	名稱	輸入／輸出	參考
1	CD	傳送檢查	輸入	和內部電路相接
2	RD	接收數據	輸入	和內部電路相接
3	SD	傳送數據	輸出	和內部電路相接
4	ER	設備準備完畢	輸出	和內部電路相接
5	SG	訊號地面		和內部電路相接
6	DR	數據設定準備完畢	輸出	沒有連接
7	RS	要求傳送	輸出	和內部電路相接
8	CS	可供傳送	輸入	和內部電路相接
9	CI	鈴聲指示器	輸入	和內部電路相接

滑鼠輸入端子（日本 NEC PC98 系列用）：9 芯小型 DIN 接頭



芯號	訊號	輸入／輸出	參考
1	+5V	輸入	電腦輸出
2	XA	輸入	電腦輸出
3	XB	輸入	電腦輸出
4	YA	輸入	電腦輸出
5	YB	輸入	電腦輸出
6	LEFT	輸入	電腦輸出
7	NC	輸入	沒有連接
8	RIGHT	輸入	電腦輸出
9	GND		電腦輸出

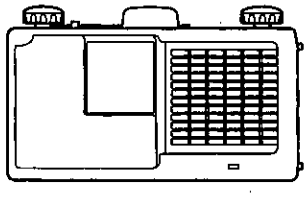
RS-232C 端子：9 芯 D-Sub 凸型接頭



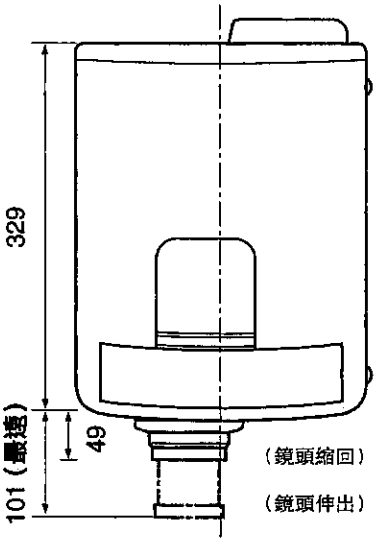
芯號	訊號	名稱	輸入／輸出	參考
1	CD			沒有連接
2	RD	接收數據	輸入	和內部電路相接
3	SD	傳送數據	輸出	和內部電路相接
4	ER			沒有連接
5	SG	訊號地面		和內部電路相接
6	DR	數據設定準備完畢	輸出	沒有連接
7	RS	要求傳送	輸出	和內部電路相接
8	CS			沒有連接
9	CI			沒有連接

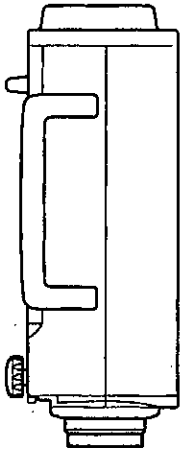
外型尺寸

背面

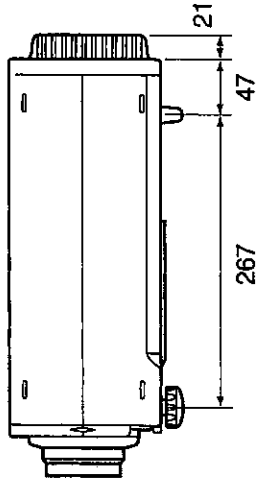


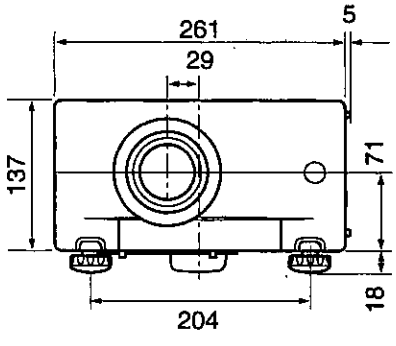
頂部



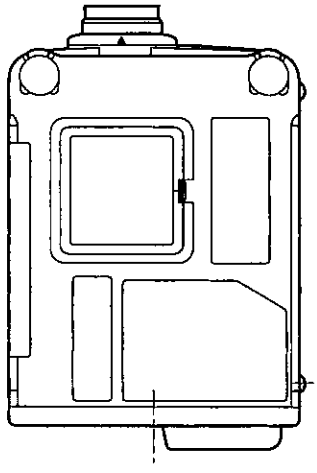


側面





前面



底部

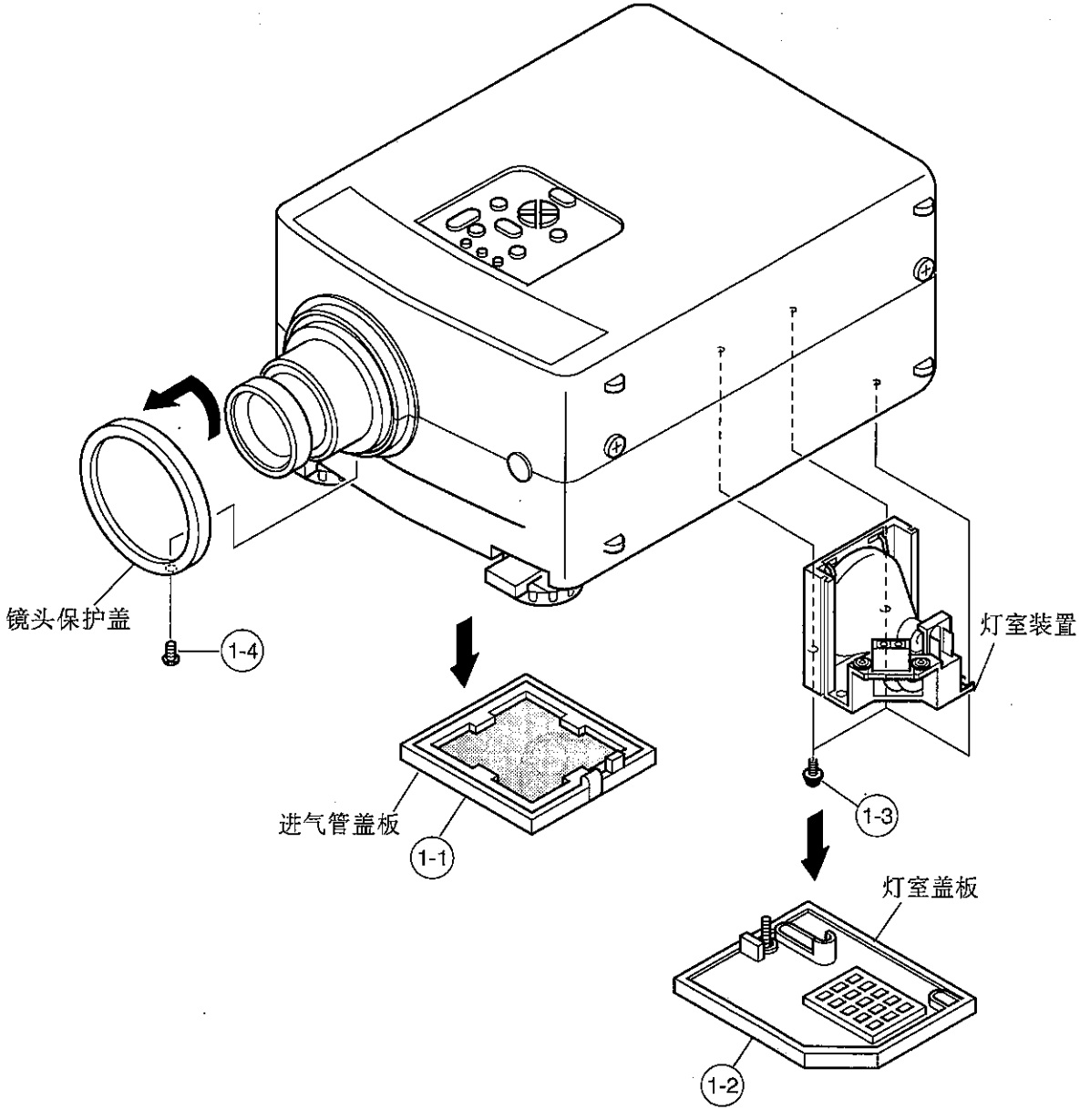
〔單位：毫米〕

主要部件的拆卸

1．进气管盖板、灯泡组件和镜头保护盖的拆卸

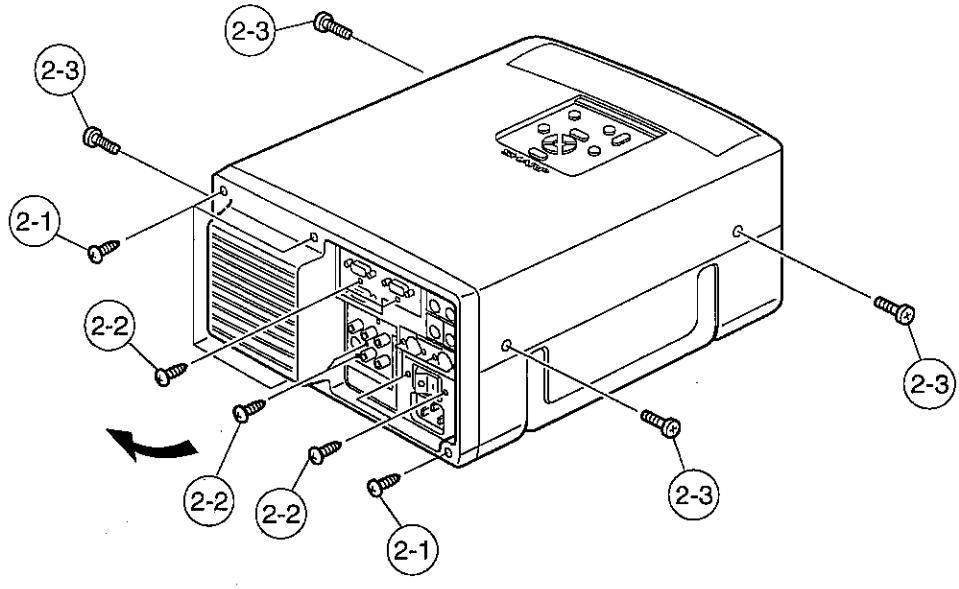
1-1．取下进气管盖板。
1-2．松去灯室盖板上的 1 支固定螺丝，取下灯室盖板。
1-3．松去灯室装置上的 3 支固定螺丝，取下灯室装置。
1-4．松去镜头保护盖上的 1 支固定螺丝，顺时针或逆时针方向旋转该保护盖，取下之。
注意:

- 在更换之前，必须关闭投影机的电源开关，并检查冷却风扇是否处于完全停转状态，然后从电源插座上拔出电源插头。
- 投影机刚使用完后切勿立刻作更换工作，因为，灯室装置还处于非常热的状态。关闭电源开关，拔出电源插头，至少等待 1 小时后，才可进行更换工作。
- 将灯室装置装回至原来的位置。此时应注意避免错误地连接插接端。

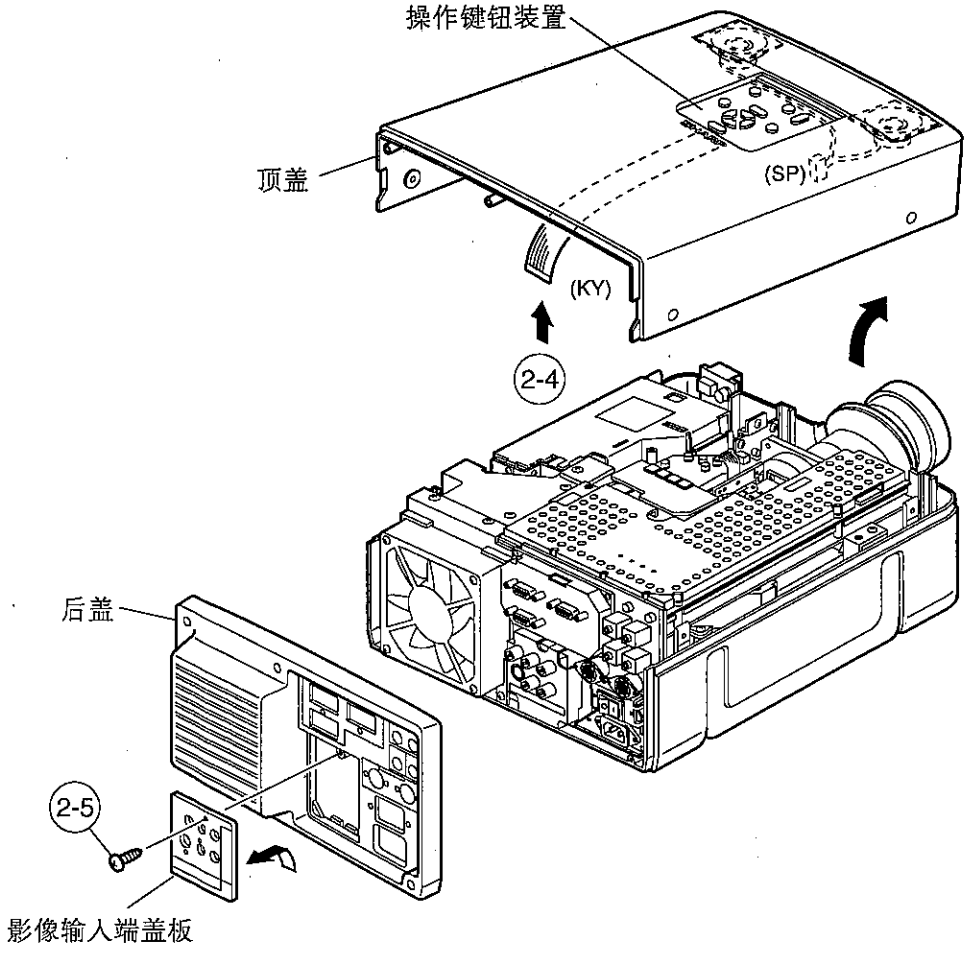


2. 顶盖和后盖的拆卸

2-1. 松去后盖上面和下面的 5 支固定螺丝。
2-2. 松去后盖和端口盖板上的 10 支固定螺丝，然后取下底面的后盖（因为，基后盖钩住顶盖）。
2-3. 松去顶盖上的 4 支固定螺丝。

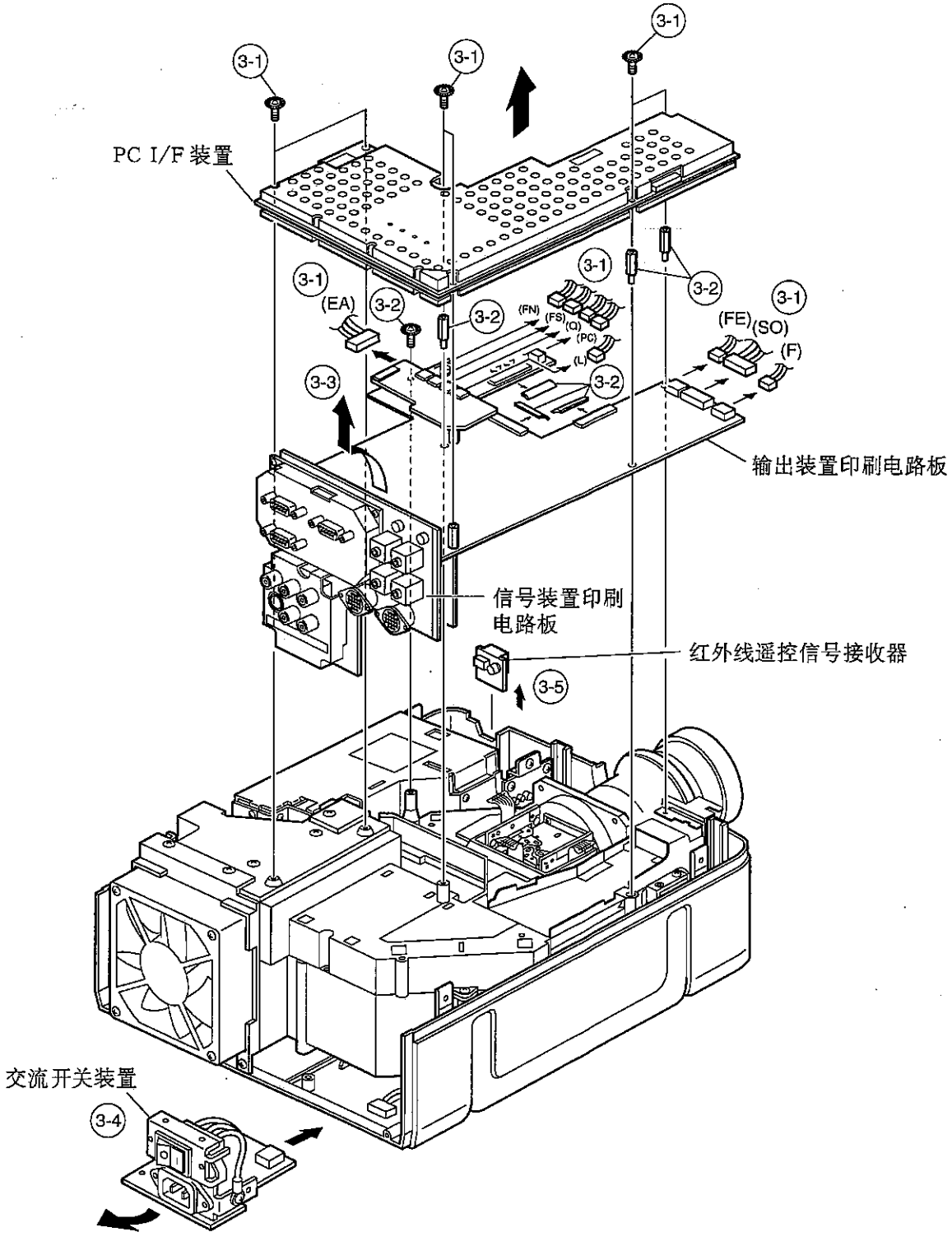


2-4. 按下底盖两边的中心位置，向外拉出顶盖的末端而取下。缓慢地提起顶盖的后部，拆下操作键钮印刷电路板的插接器（KY）和扬声器的插接器（SP），然后取下顶盖。
2-5. 松去影像输入端盖板上的 1 支固定螺丝，取下之。



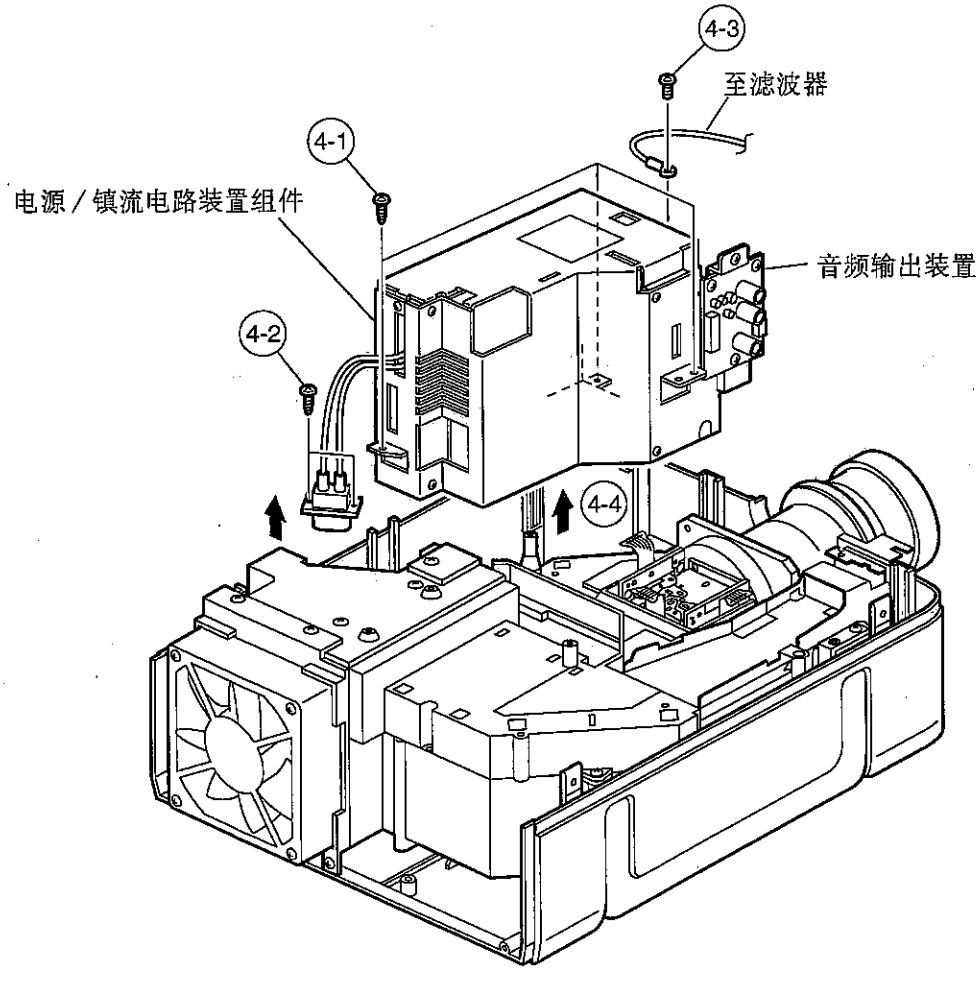
3．各印刷电路板的拆卸

3-1．松去 PC I/F 印刷电路板上的 6 支固定螺丝，拆下输出装置印刷电路板的插接器，然后从输出装置印刷电路板上取出 PC I/F 印刷电路板。
3-2．松去输出装置印刷电路板上的三片衬垫和一支固定螺丝，拆下 LCD 扁平电缆，然后与信号装置印刷电路板一起取下输出装置印刷电路板。
3-3．向上轻弹输出装置印刷电路板 90°，提起信号装置印刷电路板。
3-4．抬起交流开关装置印刷电路板的前面，抽出该印刷电路板。
3-5．最后，取出遥控信号接收器印刷电路板。



4. 电源／镇流电路装置印刷电路板组件的拆卸

4-1. 松去电源／镇流电路装置印刷电路板组件上的 3 支固定螺丝。
4-2. 松去灯泡管座支架上的两支固定螺丝，取下该支架。
4-3. 松开滤波器印刷电路板与接地线的连接。
4-4. 提起电源／镇流电路装置印刷电路板组件，取出该组件。

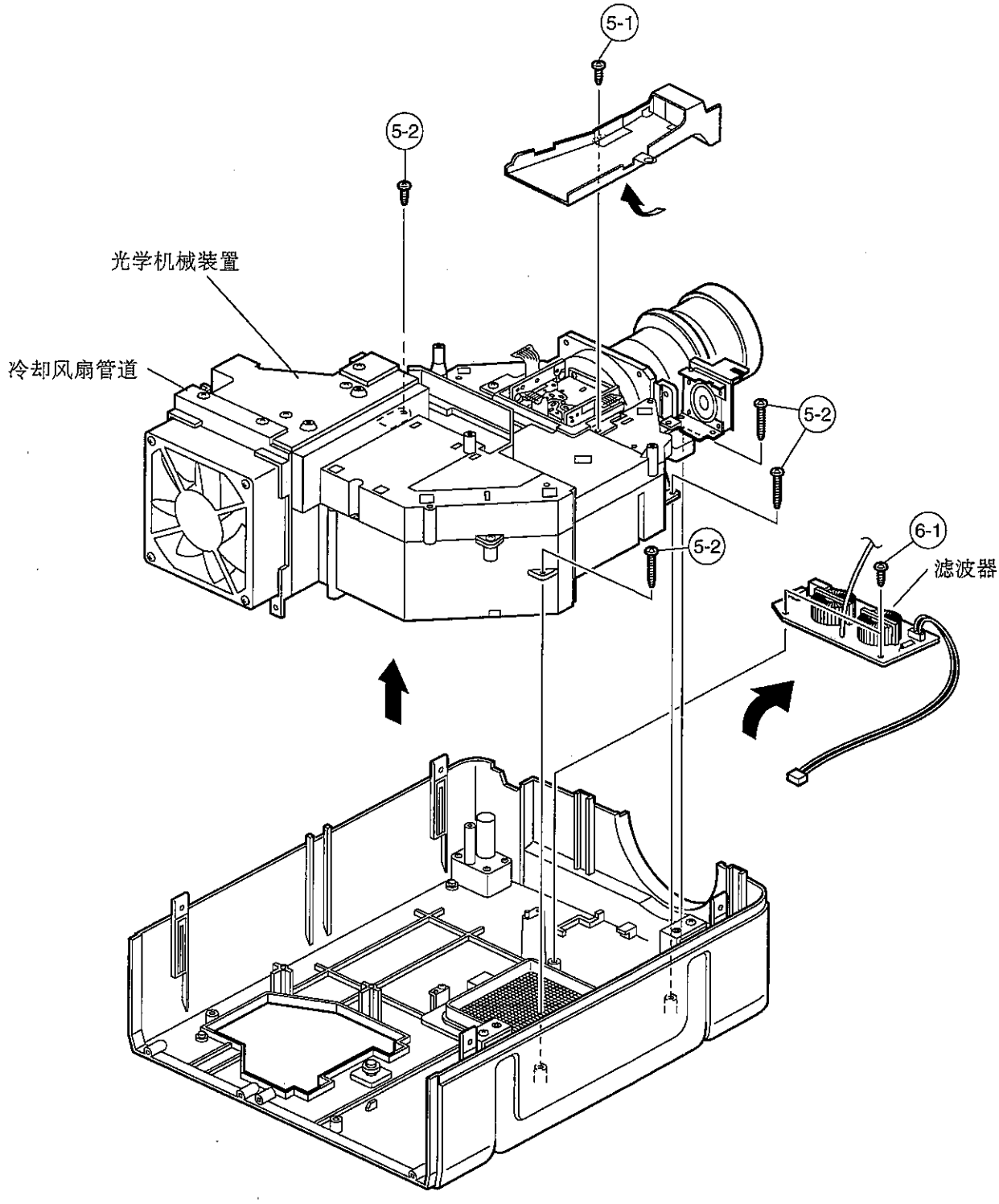


5. 光学机械装置的拆卸

5-1. 松去 IC 冷却风扇管道上的一支固定螺丝，取下该管道。
5-2. 松去光学机械装置上的 5 支固定螺丝，取下之。

6. 滤波器印刷电路板的拆卸

6-1. 松去滤波器印刷电路板上的两支固定螺丝，取下之。

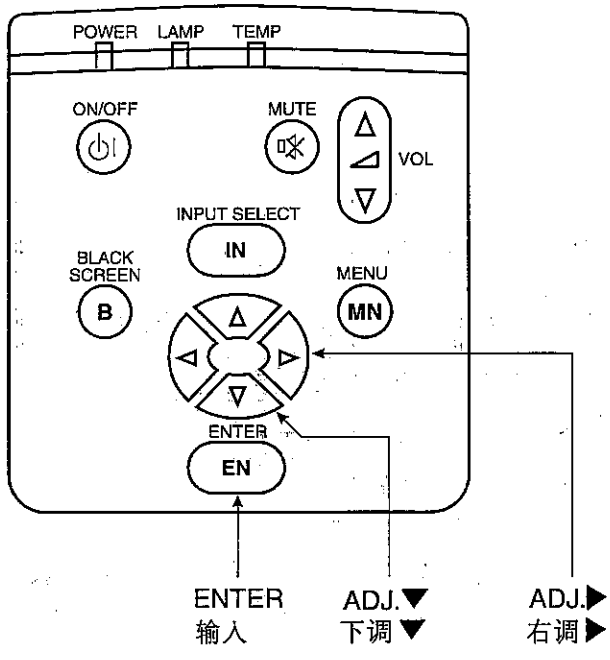


总灯定时器复位

总灯更换后，请按下述步骤对其定时器进行复位调整。

复位步骤

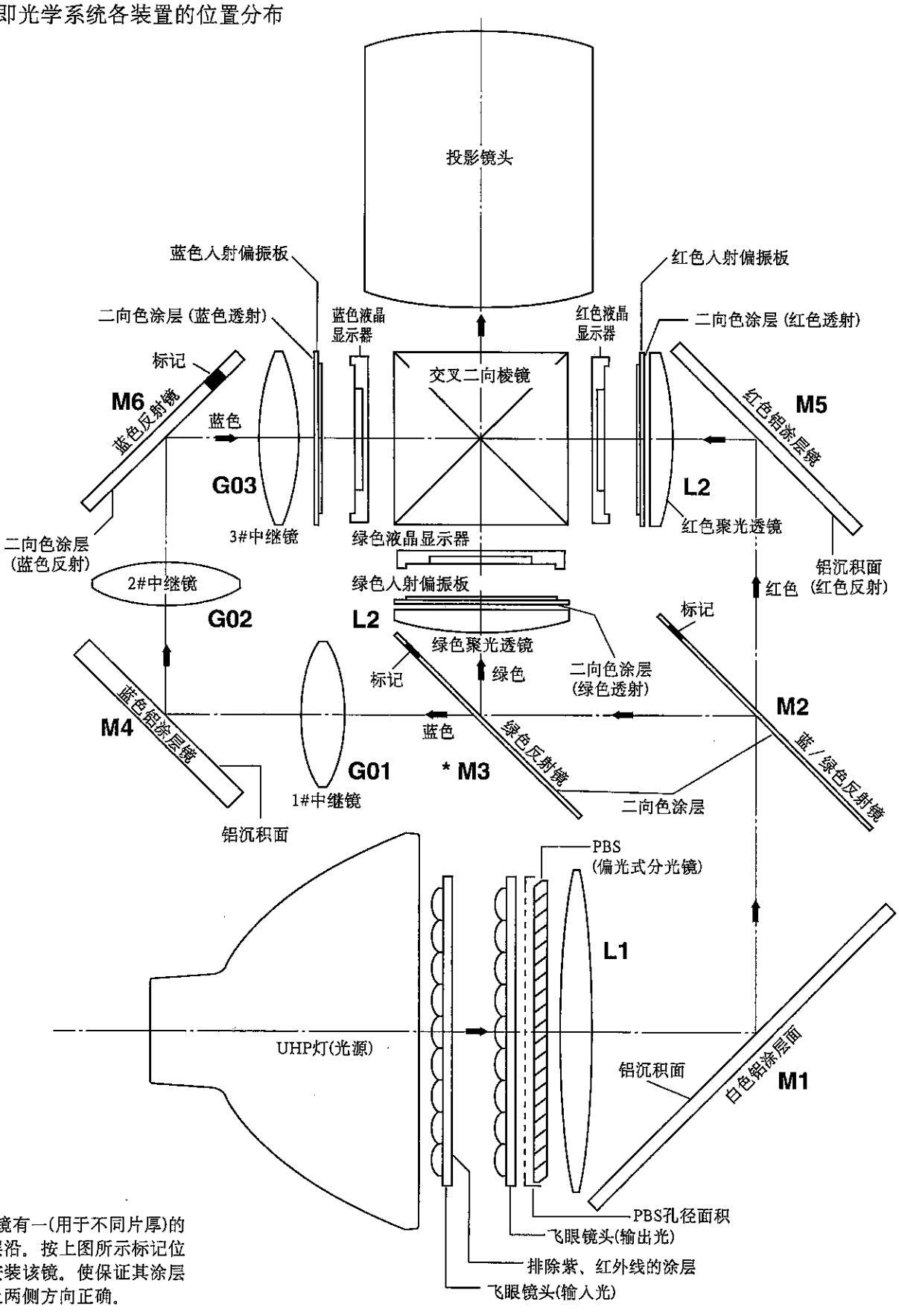
1. 同时按下投影机上的“ENTER”（输入），“ADJ.▼”（下调）和“ADJ.▶”（右调）三键，打开主电源开关（位于 AC 电源输入插孔之上）。
2. 总灯定时器复位至 0，屏幕上表示出“000H”字样。



光学装置概要

光学系统的分布图

注：即光学系统各装置的位置分布



* M3镜有一(用于不同片厚)的涂层沿。按上图所示标记位置安装该镜。使保证其涂层面及两侧方向正确。

会聚及焦点的调整

● 此项调整应在拆下顶盖和各液晶显示板保炉盖（顶面和底面）并打开电源开关之状态下进行。
图像调整用遥控器进行。调整步骤如下所示。

1. 调整投影镜头的焦点
(A)更换 3 原色液晶显示板
1. 在更换全部原色液晶显示板之前，先在屏幕上投影一个图像，并调准其焦点。
2. 拆去全部旧的原色液晶显示板，用新品更换之，并调整其焦距。调整过程中，不应变化投影机与屏幕间的距离，也不应转动投影镜头及其变焦环。

（如焦距调整用的距离关系不一，投影距离与屏幕尺寸的关系则会受到影响。也就是说，短距离投影图像（例如，40WIDE）可能会超出焦距范围，或者长距离投影图像（例如，300WIDE）可能会不达焦距范围。）

(B)更换 3 原色液晶显示板中的一片或两片
1. 更换一片或二片原色液晶显示板后调整焦距之场合，先在屏幕上投影一个图像，并调准其焦点。
2. 更换新品原色液晶显示板后，再进行焦距调整。调整过程中，不应变化投影机与屏幕间的距离，也不应转动投影镜头及其变焦环。
（如上述距离或投影镜头被变动，则需重复上述 1 和 2 之步骤。）

2. 绿色液晶显示板的调整
(A)焦点调整（此项调整在全白屏幕上进行）
1. 横向中心焦点（θ Y 方向）的调整：松开锁紧螺丝 “b” 和 “c”，插偏头螺磁刀于槽孔 “b” 之中。施转此螺丝刀进行调整节，让屏幕左右两半焦点清晰。
（先保持左右两半焦点的平衡，然后边进行下列 2. 的调整边堤高焦点准确度。）
2. 纵向中心焦点（θ X 和 Z 方向）的调整：松开锁紧螺丝 “a” 和 “c”，插偏头螺丝刀于槽孔 “a” 和 “c” 之中。施转此螺丝刀进行调节，让屏幕顶边，纵向中心以及底边焦点清晰。这时，临时施紧锁紧螺丝 “b”，固定 θ Y 方向的调整。
3. 重复上述 1，2 步骤，直至对焦精调完成为止。之后，施紧所有锁紧螺丝。

注意:
① 焦点调整必须谨慎进行，因为各方向的调整均是相互影响的。
② 会骤和对焦调整过程中，切勿转动投影镜头的变焦环和对焦环。

(B)会骤调整
● 绿色液晶显示板没有会骤调整机构。此液晶显示板起会聚调整基准之作用。

3. 绿色液晶显示板的调整（红色液晶显示板的调整相同）
(A)焦点调整
● 调整步骤与绿色液晶显示板的焦点调整相同，但 Z 方向的调整范围较小。此外，蓝色与绿色液晶显示板间会聚差异较大时，则需先调会聚后调焦点。
(B)会骤调整
● 用棋盘格图案信号进行此项调整。
此项调整应用绿色或与其有关彩色来进行。
(1) 松开锁紧螺丝 “d”。
(2) 以绿色液晶显示板在屏幕的中心为基准，没 X，Y 及 θ Z 方法调整蓝色液晶显示板。
(3) 达至要求后，施紧会聚锁紧螺旋丝 “d”。

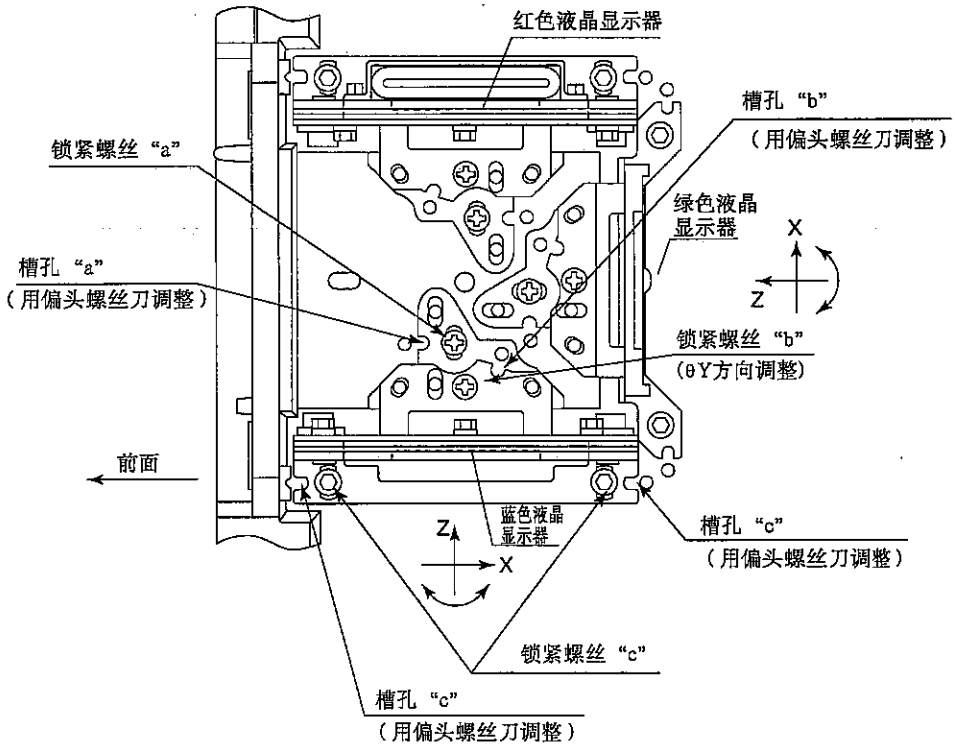
注意:

① 偏心凸轮在会聚调整中起了作用。这便意味其施转及移动非均匀。

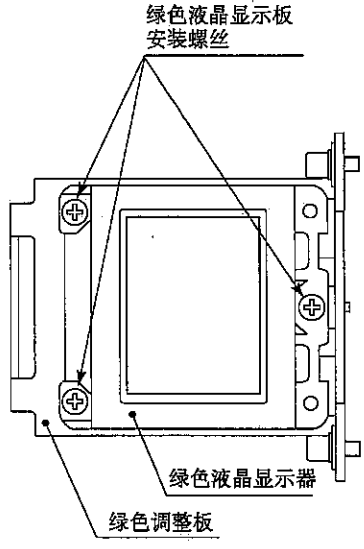
② 本投影机没有装备液晶成象过程中使用了二向色涂屋技术。各原色液晶显示板的达到最佳焦距调整状态时，成像自动会聚完成。

会聚和焦头调整的机构

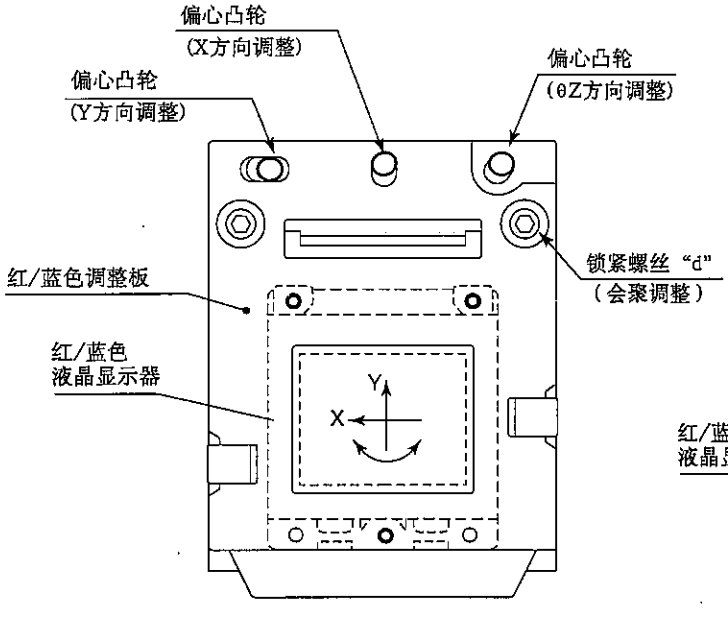
顶视图



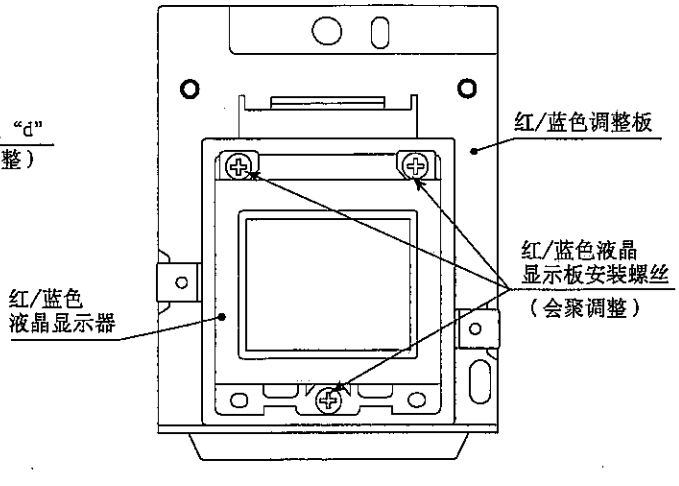
侧视图



侧视图 (从内部来看)



侧视图 (从外部来看)



会聚度和焦点的初看调整

调整方向

调整	方向	说明	液晶显示板的方向
会聚度	X 方向		左右
	Y 方向		上下
	θZ 方向	绕 Z 轴施转	施转轴
焦点	Z 方向		光学轴
	θX 方向	绕 X 轴施转	上至下拍打
	θY 方向	绕 Y 轴施转	左至右拍打

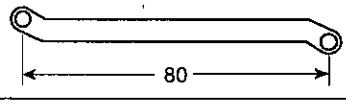
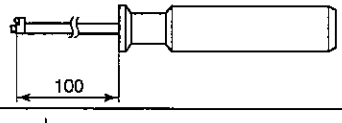
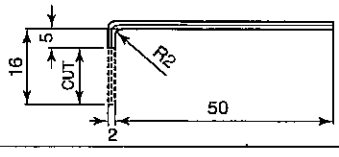
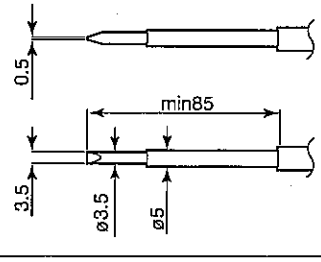
光学机构的会聚度和焦点的调整

色彩	调整	方向	移动	位置	调整工具	锁紧螺丝	紧固工具
红/蓝色	会聚度	X 方向	±0.8mm	偏心凸轮	偏心凸轮调整板手	d	六角板手
		Y 方向	±0.8mm	偏心凸轮	偏心凸轮调整板手	d	六角板手
		θZ 方向	±1°	偏心凸轮	偏心凸轮调整板手	d	六角板手
	焦点	Z 方向	±0.8mm	槽孔 “a” 和 “c”	片头螺丝刀，平头螺丝刀	a, c	菲力浦螺丝刀
		θX 方向	±1°	槽孔 “a” 和 “c”		a, c	
		θY 方向	±1°	槽孔 “b” 和 “c”		b, c	* 六角板手
绿色	焦点	Z 方向	±0.2mm	与红，蓝色相同			
		θX 方向	±1°				
		θY 方向	±1°				

焦点调整的其他方法

锁紧螺丝	位置	相关方向
a	槽孔 “a”	Z 和θX 方向
b	槽孔 “b”	θY 方向
c	槽孔 “c”	Z, θX 和θY 方向

会聚度和焦点的调整用工具

工具名	规格	工具代号	图样
偏心凸轮调整板手	特殊规格	9DASPN-XGNV1U	
片头螺丝刀	特殊规格	9EQDRiVER-NV1A	
六角板手	普通规格（重设计）	9EQLNC-XGNV1U	
平头螺丝刀	普通规格	9EQDRiVER-NV1B	
菲力浦螺磁刀	普通规格	—	用于 M2.6 皿形头机械螺丝
* 六角板手	普通规格	—	建议使用带把手的螺丝刀，长度为 70mm 以上。

液晶显示板的更换

在拆去顶盖的状态下

(1)拆下液晶显示器板的顶面保护盖。

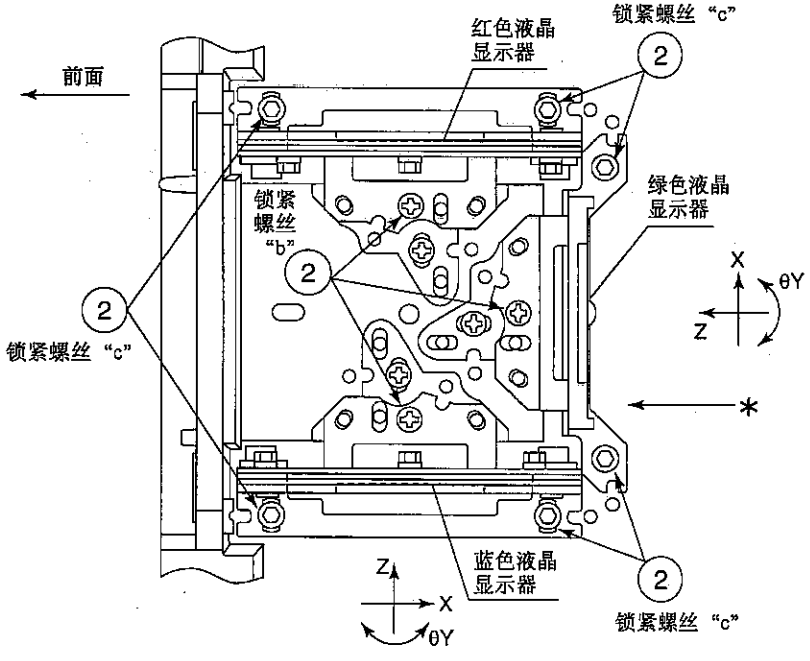
(2)松去锁紧螺丝 “b” 和 “c”。连用液晶显示板一起拆下红，蓝色调整板或绿色调整板。

(3)从液晶显示板上拆下此调整板。

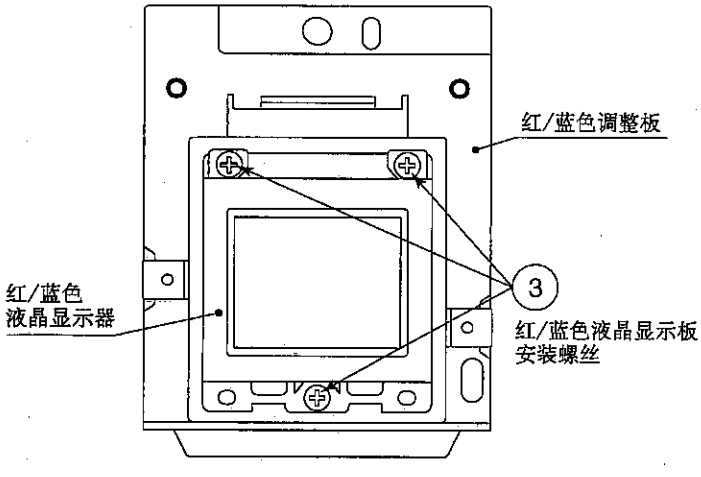
(4)按上述相反顺序安装相应的新品液晶显示板。

* 更换后重调会聚度和焦点。注意，绿色液晶显示板不需作会聚调整，而且其 Z 方向的调整范围较小。

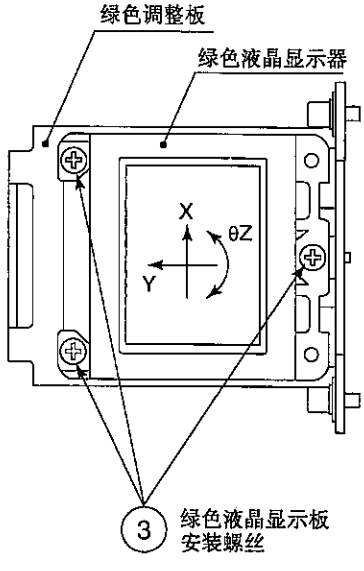
顶视图



侧视图



侧视图

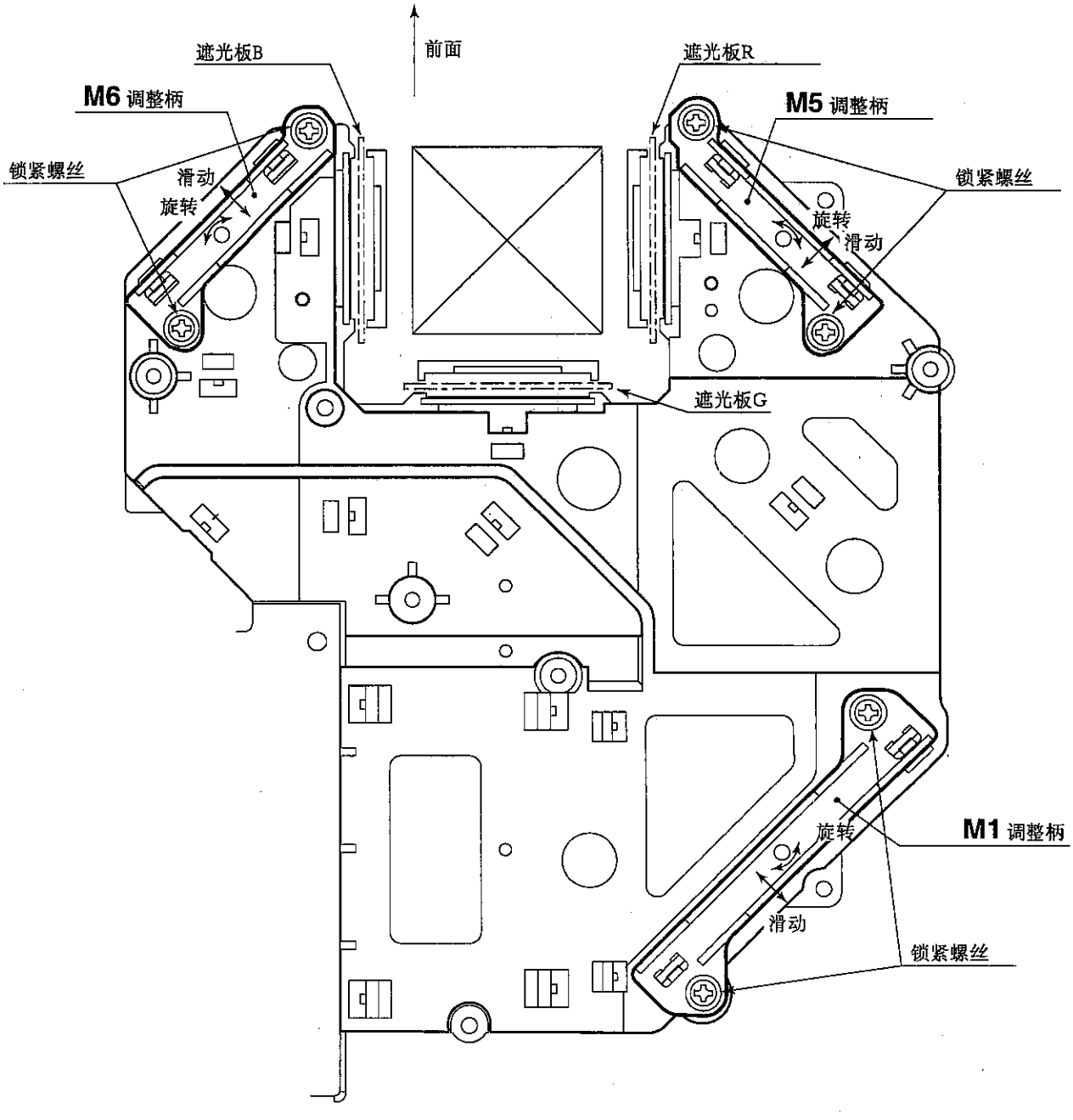


反射镜（M1，M5 和 M6）光轴的调整

红色(R)，绿色(G)和蓝色(B)反射镜发生重迭成像时，应对其光轴进行调整。一般说，更换机内的任何光学元件后均必须对各反射镜光轴进行调整。

更换机内的光学元件或调整聚焦度后，请按下述步骤调整各反射镜光轴。

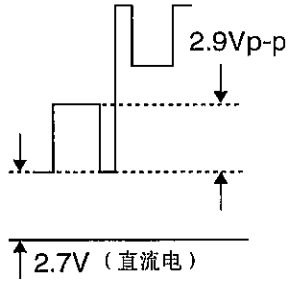
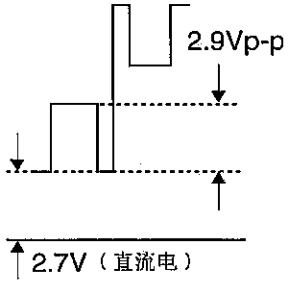
(1) 拆下所有的液晶显示板上的扁平电缆。
(2) 点亮总灯。
(3) 用遮光板遮挡住红色(R)和蓝色(B)反射镜（可用商用磁卡或类似可遮光板的板片），调整绿色(G)反射镜。
(4) 施松 M1 调整柄锁紧螺丝。
(5) 观察屏幕上的绿色(G)图像，施转或滑动 M1 调整柄，直至屏幕上的黯块消失。然后，锁定好调整柄。
(6) 用遮光片遮挡住绿色(G)和蓝色(B)反射镜，调整 M5 调整柄。之后，用相同要领，遮挡住红色(R)和绿色(G)反射镜，调整 M6 反射镜。
（调整要领见上述步骤(4)和(5)。）
(7) 揭去所有的遮光片，屏幕应为白色图像。
确让屏幕上没有黯块。

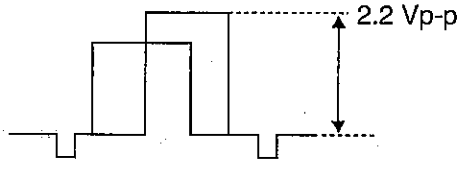


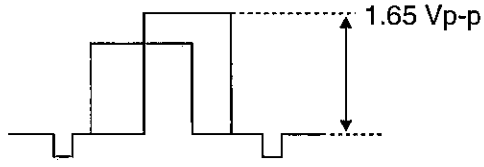
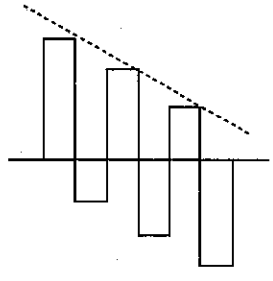
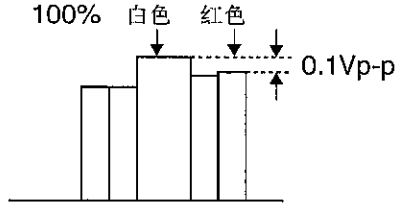
电路调整

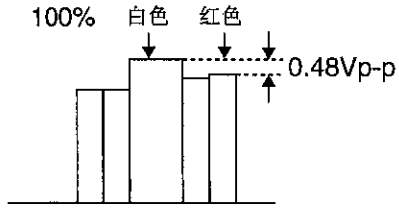
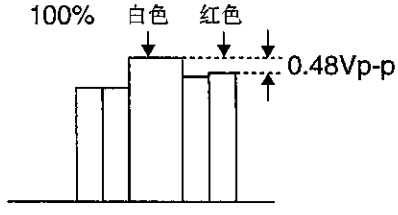
为了输入调整条件中所述的规定信号，必须连接信号发生器，或将 DOSV 或 MAC 微型计算机连接于本投影机。

序号	调整位置	调整条件	调整方法
1	EEPROM 的初始化	1. 打开电源开关（确认是否处于灯亮状态），然后预热投影机 15 分钟。	● 按下列要求进行设定: 触按 S5001 开关，以呼出处理状态，然后执行 SSS 菜单中的 S2。至此完成了本系统的初始化。但是不包括印刷电路板的初始化。此时，切勿执行 S1，否则，印刷电路板就会被初始化。作印刷电路板的调整时，必须按“印刷电路板的调整方法”所述的步骤进行调整。（见第 109 页）。
2	红色激励	1. 按下列要求进行选择: 主项目: A/D 副项目: GAIN 确认增益值是否定 163。 2. 输入 100% 红色信号和 SVGA (800X600) 60Hz 700Mv 信号于 PC IN 插接器。 主项目: A/D 副项目: R-D	● 触按控制开关或遥控键钮，调节数据，使信号达至无位噪声状态。
3	蓝色激励	1. 输入 100% 蓝色信号和 SVGA (800X600) 60Hz 700Mv 信号于 PC IN 插接器。 主项目: A/D 副项目: B-D	● 触按控制开关或遥控键钮，调节数据，使信号达至无位噪声状态。
4	绿色激励	1. 输入 100% 绿色信号和 SVGA (800X600) 60Hz 700Mv 信号于 PC IN 插接器。 主项目: A/D 副项目: G-D	● 触按控制开关或遥控键钮，调节数据，使信号达至无位噪声状态。

序号	调整位置	调整条件	调整方法
5	RGB （红绿蓝三色） 1 系统的黑色电平信号振幅 （奇数）	1. 按下列要求进行选择： 主项目: OUTPUT1 副项目: R1-BLK R1-GAIN 绿色之场合，选择副项目中的 G1-BLK 和 G1-GAIN。 黑色之场合，选择副项目中的 B1-BLK 和 B1-GAIN。 2. 红色之场合，接示波器于 SC1101 的脚(4)(TP1101)。 绿色之场合，接示波器于 SC1201 的脚(4)(TP1201)。 蓝色之场合，接示波器于 SC1301 的脚(4)(TP1301)。	● 选择副项目中的R1-BLK，触按控制开关或遥控键钮，使黑色峰值电平调至 2.7 ± 0.1Vp-p（直流电）。 ● 接着选择副项目中的 R1-GAIN，调节信号振幅至 2.9 ± 0.1Vp-p。 ● 按与上记相同要领进行绿色和蓝色的调整。 
6	RGB （红绿蓝三色） 2 系统的黑色电平信号振幅 （偶数）	1. 按下列要求进行选择： 主项目: OUTPUT2 副项目: R2-BLK (R) R2-GAIN 绿色之场合，选择副项目中的 G2-BLK 和 G2-GAIN。 黑色之场合，选择副项目中的 B2-BLK 和 B2-GAIN。	● 选择副项目中的R2-BLK，触按控制开关或遥控键钮，使黑色峰值电平调至 2.7 ± 0.1Vp-p（直流电）。 ● 接着选择副项目中的 R1-GAIN，调节信号振幅至 2.9 ± 0.1Vp-p。 
		2. 红色之场合，接示波器于 SC1101 的脚(6)(TP1102)。 绿色之场合，接示波器于 SC1201 的脚(6)(TP1202)。 蓝色之场合，接示波器于 SC1301 的脚(6)(TP1302)。	● 按与上记相同要领进行绿色和蓝色的调整。 ● 输入 SVGA 等级单色图案信号，以检查邻接的两条垂直线之间的亮度是否有差异。若有差异时，应按下列所示的副项目内容进行微调。 红色为 R2-GAIN 绿色为 R2-GAIN 蓝色为 R2-GAIN
7	取样和同步脉冲相位 RCK- 相位 GCK- 相位 BCK- 相位	1. 输入 XGA 制式 75Hz 黑色信号。 2. 按下列要求进行选择: 主项目: OUTPUT3 副项目: SH-PHASE (设标准电平于 8) 红色，绿色以及蓝色的相位均设定于 4。	● 触按控制开关或遥控键钮，以检查 “OUTPUT3” 的文字有无模糊不清或重像现象。若有异常时，应在序号 7 至 9 的范围内进行其设定的微调。

序号	调整位置	调整条件	调整方法
8	RGB （红绿蓝三色） 计数器电压的调整	1. 输入黑色和红色 (25%) 带状信号 (SVGA) 于 RGB1 。 2. 按下列要求进行选择: 主项目: OUTPUT3 副项目: RC (R) 3. 通过操作开关或遥控键钮改变于外侧 RG1	● 触按控制开关或遥控键钮，调节数据，使闪变赦应噪声达至最小程度。 ● 按与上记相同要领进行 BC (B) 和 GC (G) 的调整。 ● 检查屏幕上显示的图像中心和左右边是否均匀。若有不均匀状态时，则应重调图像，使左右边达至相同程度。
9	RGB （红绿蓝三色） 白色平衡	1. 输入 32 等级灰度测试信号 (SVGA)。 主项目: OUTPUT1 副项目: R1-BLK R1-GAIN (R) B1-BLK B1-GAIN (R)	● 选择副项目中的 R1-BLK 和 B1-BLK，调节黑色平衡。选择副项目中的 R1-GAIN 和 B1-GAIN，调节灰色至白色平衡。
10	水平中心	1. 输入 NTSC 制式单像管图案信号。 2. 主项目: VIDEO2 副项目: N358-DLY N443-DLY PAL-DLY SECAM-DLY 检查所有设定值是否为 (0) 3. 主项目: VIDEO1 副项目: NTSC-H	● 触按控制开关或遥控键钮，调节数据，以获得相同的过扫描。
11	视频图像的调整	1. 输入条状彩条信号。 主项目: VIDEO1 副项目: PICTURE 2. 接示波器于 P801 脚(2)与 GND（接地端）之间。	● 触按控制开关或遥控键钮，调节黑色至白色（100%）电平间的差达至 2.2 ± 0.02Vp-p。 

序号	调整位置	调整条件	调整方法
12	视频 AGC (自动增益控制)	1. 输入条状彩条信号。 主项目: VIDEO1 副项目: AGC 2. 接示波器于 P801 脚(2)与 GND（接地端）之间。	● 触按控制开关或遥控键钮，调节黑色至白色(100%)电平间的差达至 1.65 ± 0.02Vp-p。 
13	视频亮度的调整	1. 输入基频带信号（条状彩条信号）。(ON-AIR 信号为噪声极多，所以不能接收该信号) 主项目: VIDEO1 副项目: BRIGHT 2. 触按控制开关或遥控静噪键钮，设 γ 补正值于处理状态。	● 触按控制开关或遥控键钮，调节设定值，使黑色信号达至无位噪声状态。
14	色调	1. 输入条状彩条信号。 主项目: VIDEO1 副项目: TINT 2. 接示波器于 P801 脚(5)。	● 触按控制开关或遥控键钮，调节数据，使蓝色亮度（B-Y）信号的波形达至下图所示的规定要求。 
15	NTSC 制式彩色饱和电平	1. 输入条状彩条信号。 主项目: VIDEO1 副项目: N-COLOR 2. 接示波器于 P801 脚(1)。	● 触按控制开关或遥控键钮，调节数据，使 100% 白色部分与红色部分间的差达至 0.1 ± 0.02Vp-p。 （与 100% 白色相同） 

序号	调整位置	调整条件	调整方法
16	PAL 制式彩色饱和电平	1. 输入条 PAL 制式彩条信号。 主项目: VIDEO1 副项目: P-COLOR 2. 接示波器于 P801 脚(1)。	● 触按控制开关或遥控键钮，调节数据，使100%白色部分与红色部分间的差达至 0.48 ± 0.02Vp-p。 
17	SECAM 制式彩色饱和电平	1. 输入SECAM制式彩条信号。 主项目: VIDEO1 副项目: S-COLOR 2. 接示波器于 P801 脚(1)。	● 触按控制开关或遥控键钮，调节数据，使100%白色部分与红色部分间的差达至 0.48 ± 0.02Vp-p。 
18	视频白色平衡	1. 输入 NTSC 制式单像管图案信号。 主项目: VIDEO2 副项目: R1-GAIN B1-GAIN	● 触按控制开关或遥控键钮，调节数据，使白色平衡述至与监视器屏幕上所要求的程度。如果黑色侧的平衡调整不正确，则应按下列要求进行选择并重调整黑色侧的平衡。 主项目: OUTPUT1 副项目: R1-BLK B1-BLK 接着按下列要求进行选择: 主项目: VIDEO2 副项目: R1-GAIN B1-GAIN 重调关连数据。 在 RGB 输入和 VIDEO 输入状态下，副项目中的 R1-BLK和B1-BLK可共用，因此，只要再输入RGB信号，就可以调节白色平衡。
19	彩色制式的性能检查	1. 接收彩条信号。	● 设定于处理状态，选择 L1，以检查彩色和色调。
20	视频制式的性能检查	1. 接收单像管图案信号。	● 设定于处理状态，选择 L2，以检查图像，亮度及鲜明度。

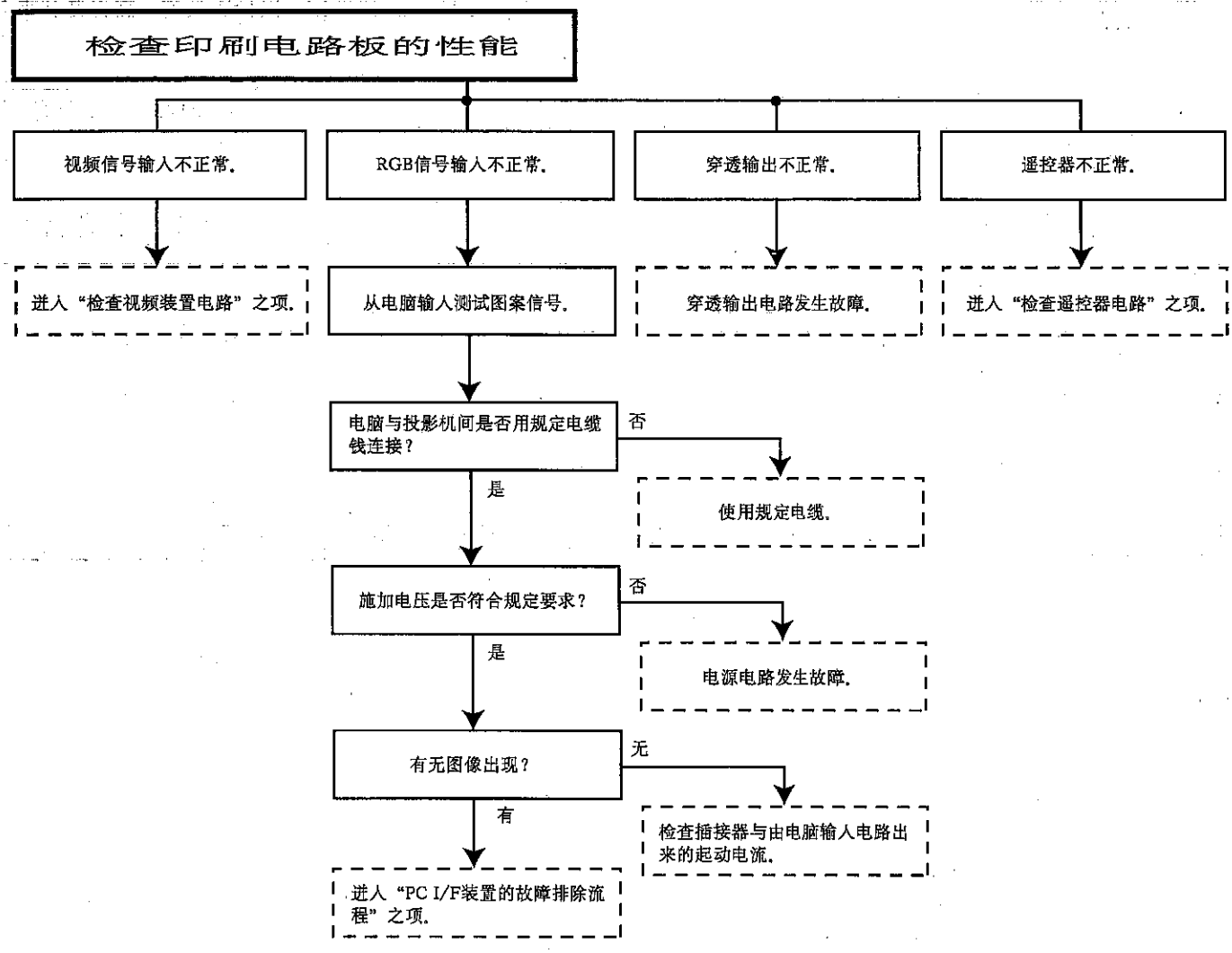
序号	调整位置	调整条件	调整方法
21	音频制式的性能检查		● 设定于处理状态，选择L3，以检查低音，高音及其平衡状态。
22	RGB（红绿蓝三色）的性能检查	1. 接收RGB（红绿蓝三色）信号。	● 设定于处理状态，选择L4，以检查图像，亮度，红色，蓝色，时钟，相位，水平位置及垂直位置。
23	关机定时器的性能检查		● 设定于处理状态，选择OFF，然后检查关机定时器是否从5分钟开始启动并以1秒钟为单位递减至0时停止。
24	热敏电阻的性能检查	1. 用吹风机加热热敏电阻。	● 检查显示屏上有无显示出“TEMP”的字样。
25	出厂前设定		● 按下列要求进行设定。 程序调整：S4 — 遥控器的设定：“出厂前设定于4”

PC接口(CPCI-0025CE04. PC I/F装置)的调整

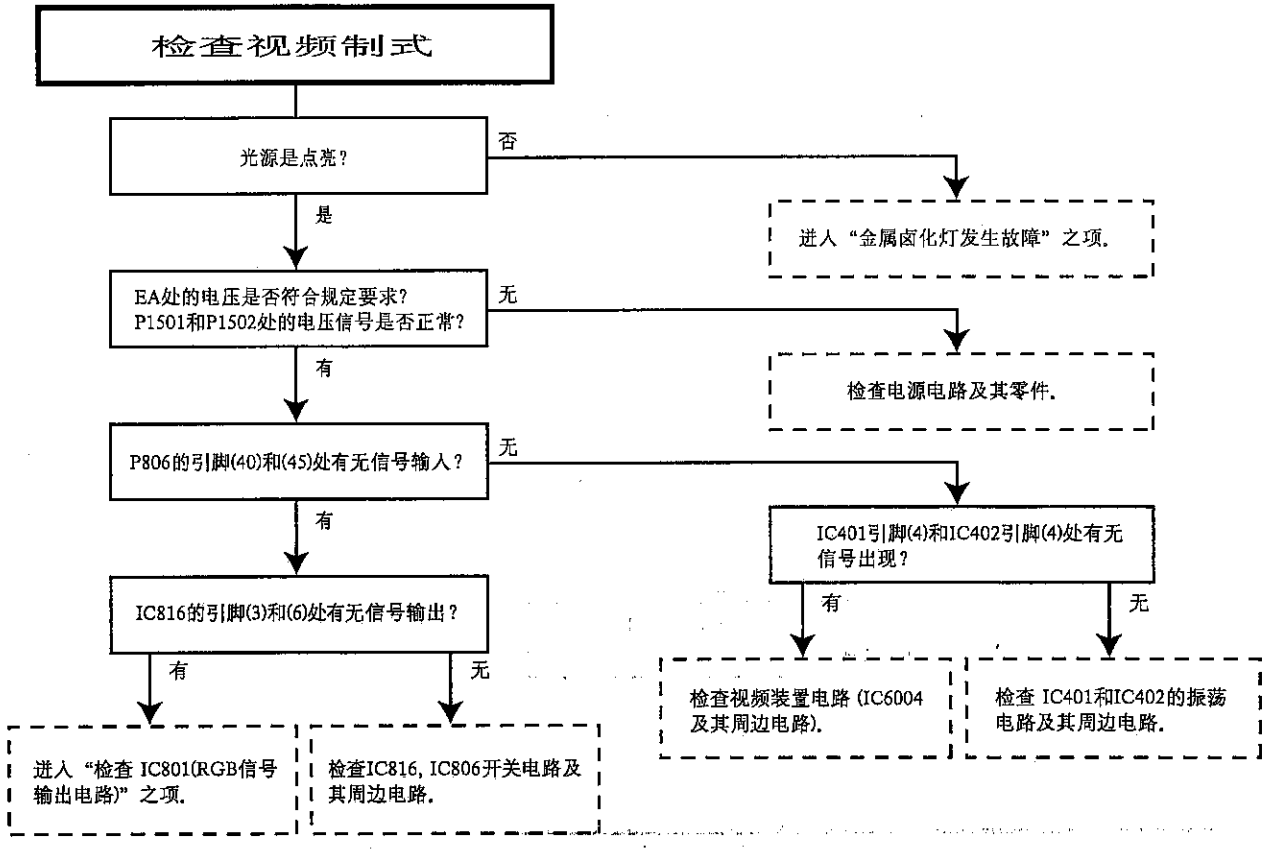
1. EEPROM初始化
   1) 触按S5001键，设定处理状态。
   2) 执行SSS菜单上的S1指令。（S1指令用于单独实行PC板初化处理。切勿操作S2指令，其指令用于除PC板初始化处理以外的其它调整。）

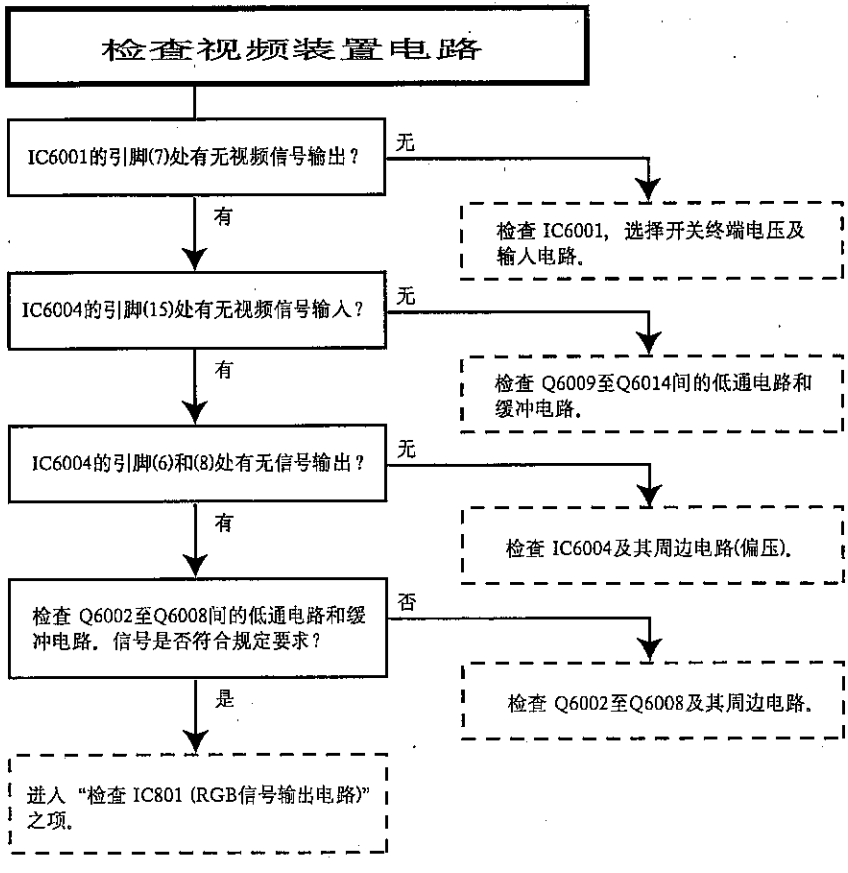
2. 各设定值的调整
   2-1. 示波器测试范围设定
   设测示范围为DC1V/段及5 μ S/段。
   2-2. 输入信号
   输入SVGA 800 × 600 60Hz层次分级波形信号。
   2-3. 调整及检查各设定值
   1) 触按S5001键，设定处理状态。
   2) 调整“OUTPUT3”菜单上的SH-PHASE设定，直至“OUTPUT3”字样轮廓清楚不再模糊为止。
   3) 接示波器于TP2。调整“OUTPUT2”的亮度设定，使信号的黑色电平述至1.7V。
   4) 调整A/D菜单上的ROS设定，使C64的正极或IC11的脚(2)的电平述至1.7V。
   5) 调整A/D菜单上的GOS设定，使C57的正极或IC10的脚(2)的电平述至1.7V。
   6) 调整A/D菜单上的BOS设定，使C50的正极或IC9的脚(2)的电平述至1.7V。
   7) 确认A/D菜单上的增益设定值为163。
   8) 接示波器于TP1。调整A/D菜单上的R-D设定，使信号的白色峰值电平述至3.6V。（视察确认白色与黑色层次信号的清晰度。）
   9) 接示波器于TP3。调整A/D菜单上的B-D设定，使信号的白色峰值电平述至3.6V。（视察确认白色与黑色层次信号的清晰度。）
   10) 接示波器于TP2。调整A/D菜单上的G-D设定，使信号的白色峰值电平述至3.6V。（视察确认白色与黑色层次信号的清晰度。）
   11) 触按S5001键，退出处理状态。

故障排除流程

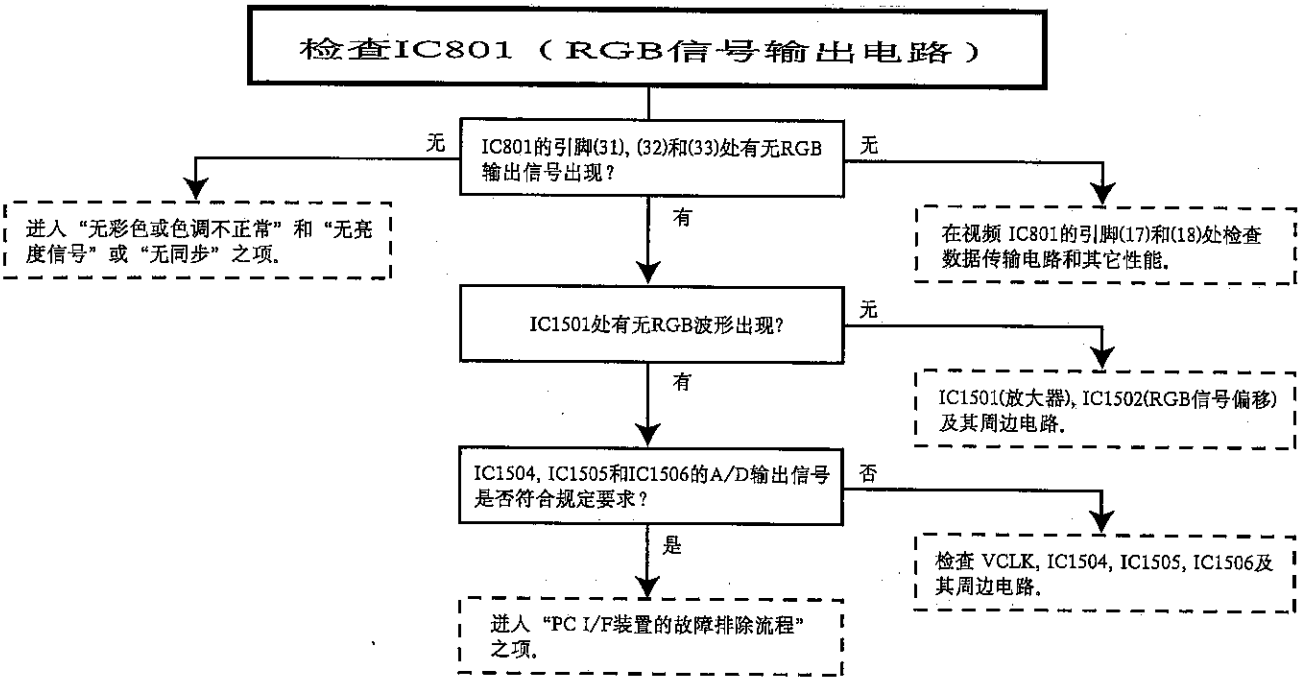

检查印刷电路板的性能
视频信号输入不正常.
RGB信号输入不正常.
穿透输出不正常.
遥控器不正常.
进入“检查视频装置电路”之项.
从电脑输入测试图案信号.
穿透输出电路发生故障.
进入“检查遥控器电路”之项.
电脑与投影机间是否用规定电缆钱连接?
否
使用规定电缆.
是
施加电压是否符合规定要求?
否
电源电路发生故障.
是
有无图像出现?
无
检查插接器与由电脑输入电路出来的起动电流.
有
进入“PC I/F装置的故障排除流程”之项.

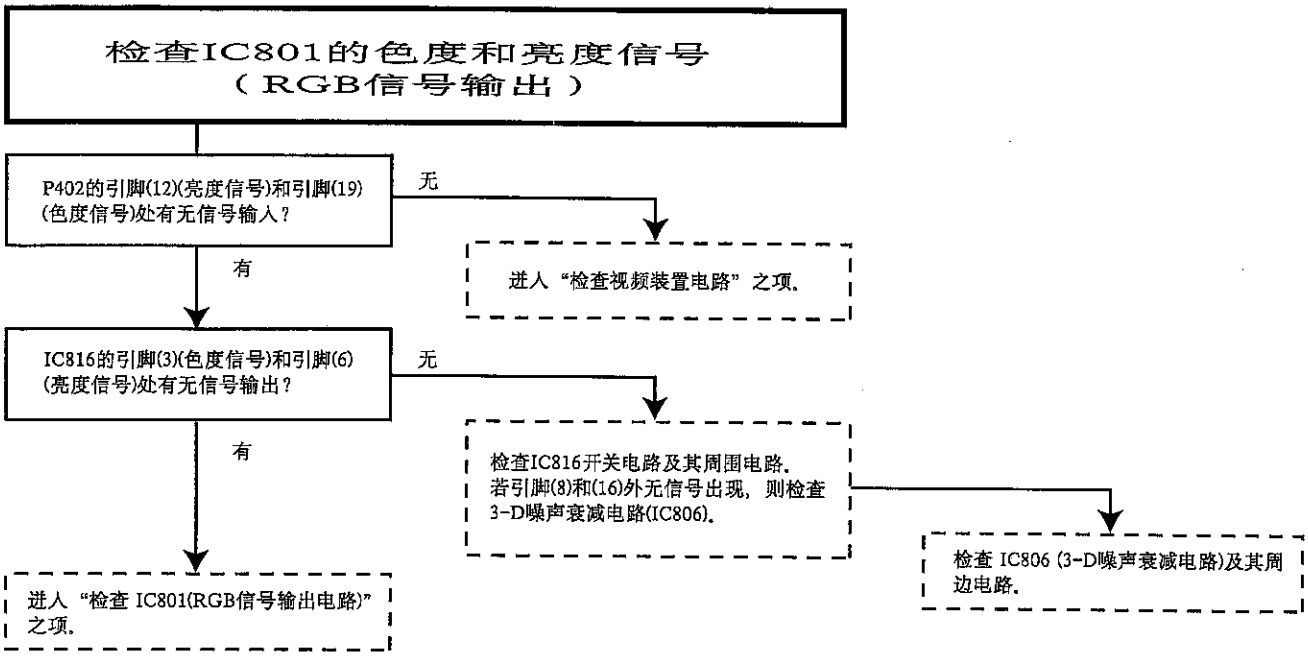
故障排除流程（接上页）


检查视频制式
光源是点亮？
否
进入“金属卤化灯发生故障”之项.
是
EA处的电压是否符合规定要求?
P1501和P1502处的电压信号是否正常?
无
检查电源电路及其零件.
有
P806的引脚(40)和(45)处有无信号输入？
无
有
IC401引脚(4)和IC402引脚(4)处有无信号出现？
有
无
IC816的引脚(3)和(6)处有无信号输出？
有
无
检查视频装置电路 (IC6004及其周边电路).
检查 IC401和IC402的振荡电路及其周边电路.
进入“检查 IC801(RGB信号输出电路)”之项.
检查IC816, IC806开关电路及其周边电路.

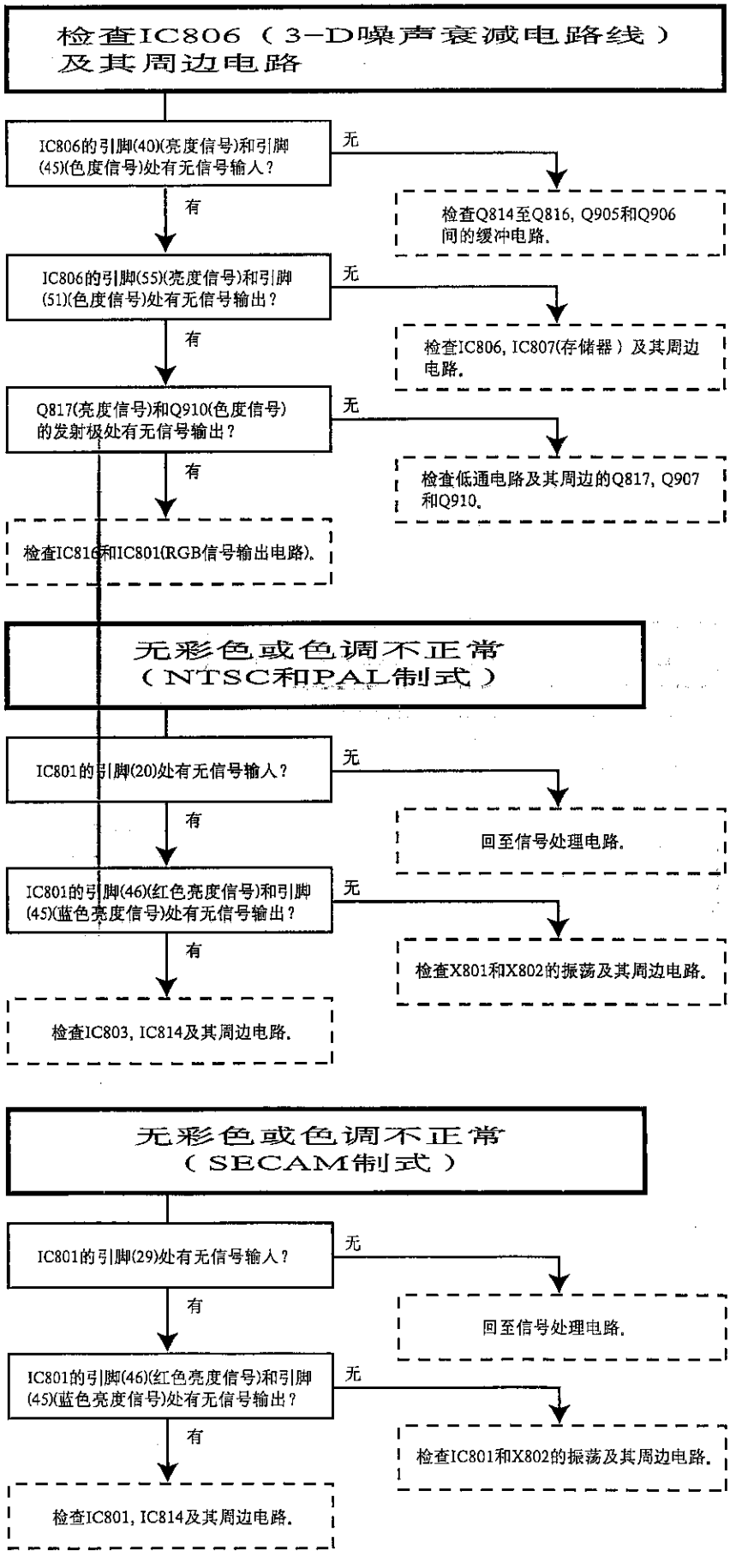

检查视频装置电路
IC6001的引脚(7)处有无视频信号输出？
无
检查 IC6001，选择开关终端电压及输入电路.
有
IC6004的引脚(15)处有无视频信号输入？
无
检查 Q6009至Q6014间的低通电路和缓冲电路.
有
IC6004的引脚(6)和(8)处有无信号输出？
无
检查 IC6004及其周边电路(偏压).
有
检查 Q6002至Q6008间的低通电路和缓冲电路. 信号是否符合规定要求？
否
检查 Q6002至Q6008及其周边电路.
是
进入“检查 IC801 (RGB信号输出电路)”之项.

故障排除流程（接上页）

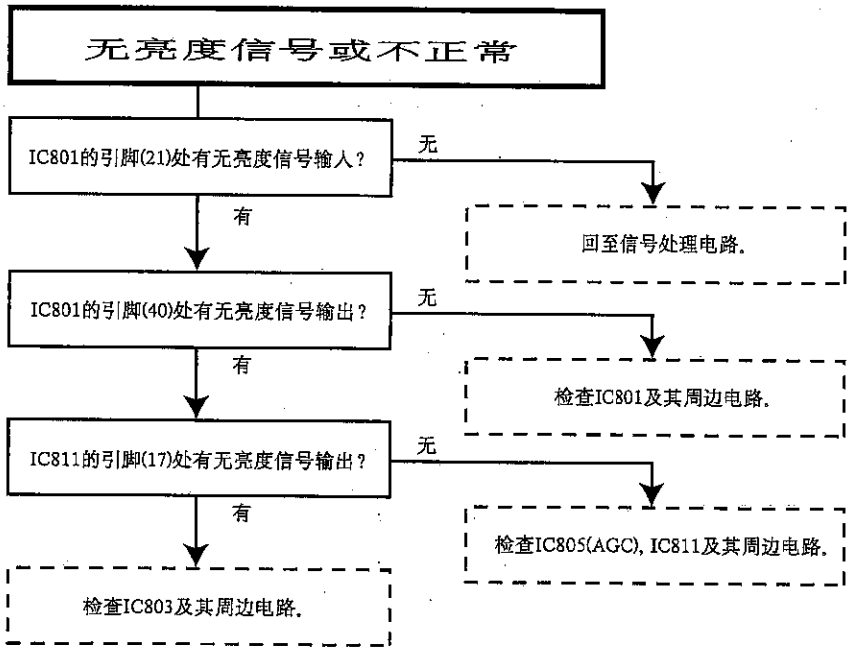

检查IC801（RGB信号输出电路）
IC801的引脚(31), (32)和(33)处有无RGB输出信号出现？
无
进入“无彩色或色调不正常”和“无亮度信号”或“无同步”之项.
有
无
在视频 IC801的引脚(17)和(18)处检查数据传输电路和其它性能.
IC1501处有无RGB波形出现?
无
IC1501(放大器), IC1502(RGB信号偏移)及其周边电路.
有
IC1504, IC1505和IC1506的A/D输出信号是否符合规定要求？
否
检查 VCLK, IC1504, IC1505, IC1506及其周边电路.
是
进入“PC I/F装置的故障排除流程”之项.

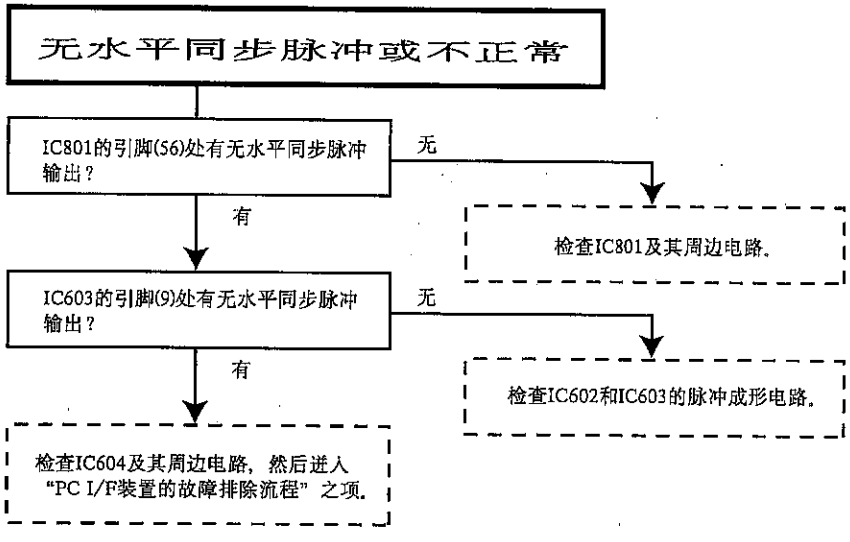

检查IC801的色度和亮度信号
（RGB信号输出）
P402的引脚(12)(亮度信号)和引脚(19)(色度信号)处有无信号输入？
无
进入“检查视频装置电路”之项.
有
IC816的引脚(3)(色度信号)和引脚(6)(亮度信号)处有无信号输出？
无
检查IC816开关电路及其周围电路.
若引脚(8)和(16)外无信号出现，则检查3-D噪声衰减电路(IC806).
检查 IC806 (3-D噪声衰减电路)及其周边电路.
有
进入“检查 IC801(RGB信号输出电路)”之项.

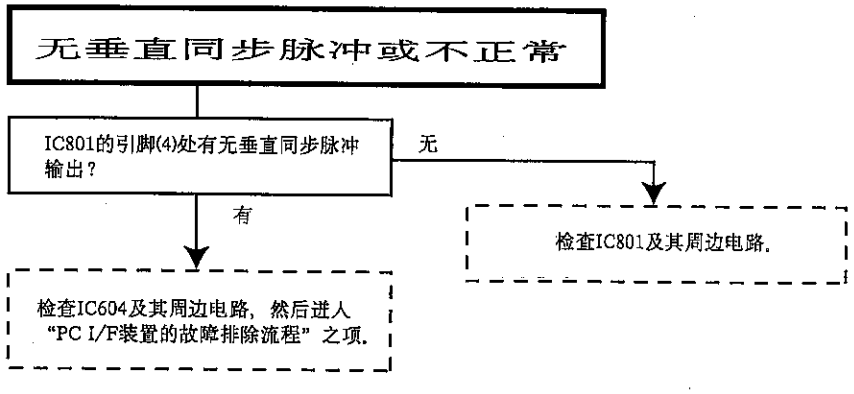
故障排除流程（接上页）


检查IC806（3-D噪声衰减电路线）及其周边电路
IC806的引脚(40)(亮度信号)和引脚(45)(色度信号)处有无信号输入？
无
检查Q814至Q816, Q905和Q906间的缓冲电路.
有
IC806的引脚(55)(亮度信号)和引脚(51)(色度信号)处有无信号输出？
无
检查IC806, IC807(存储器）及其周边电路.
有
Q817(亮度信号)和Q910(色度信号)的发射极处有无信号输出？
无
检查低通电路及其周边的Q817, Q907和Q910.
有
检查IC816和IC801(RGB信号输出电路).
无彩色或色调不正常（NTSC和PAL制式）
IC801的引脚(20)处有无信号输入？
无
回至信号处理电路.
有
IC801的引脚(46)(红色亮度信号)和引脚(45)(蓝色亮度信号)处有无信号输出？
无
检查X801和X802的振荡及其周边电路.
有
检查IC803, IC814及其周边电路.
无彩色或色调不正常（SECAM制式）
IC801的引脚(29)处有无信号输入？
无
回至信号处理电路.
有
IC801的引脚(46)(红色亮度信号)和引脚(45)(蓝色亮度信号)处有无信号输出？
无
检查IC801和X802的振荡及其周边电路.
有
检查IC801, IC814及其周边电路.

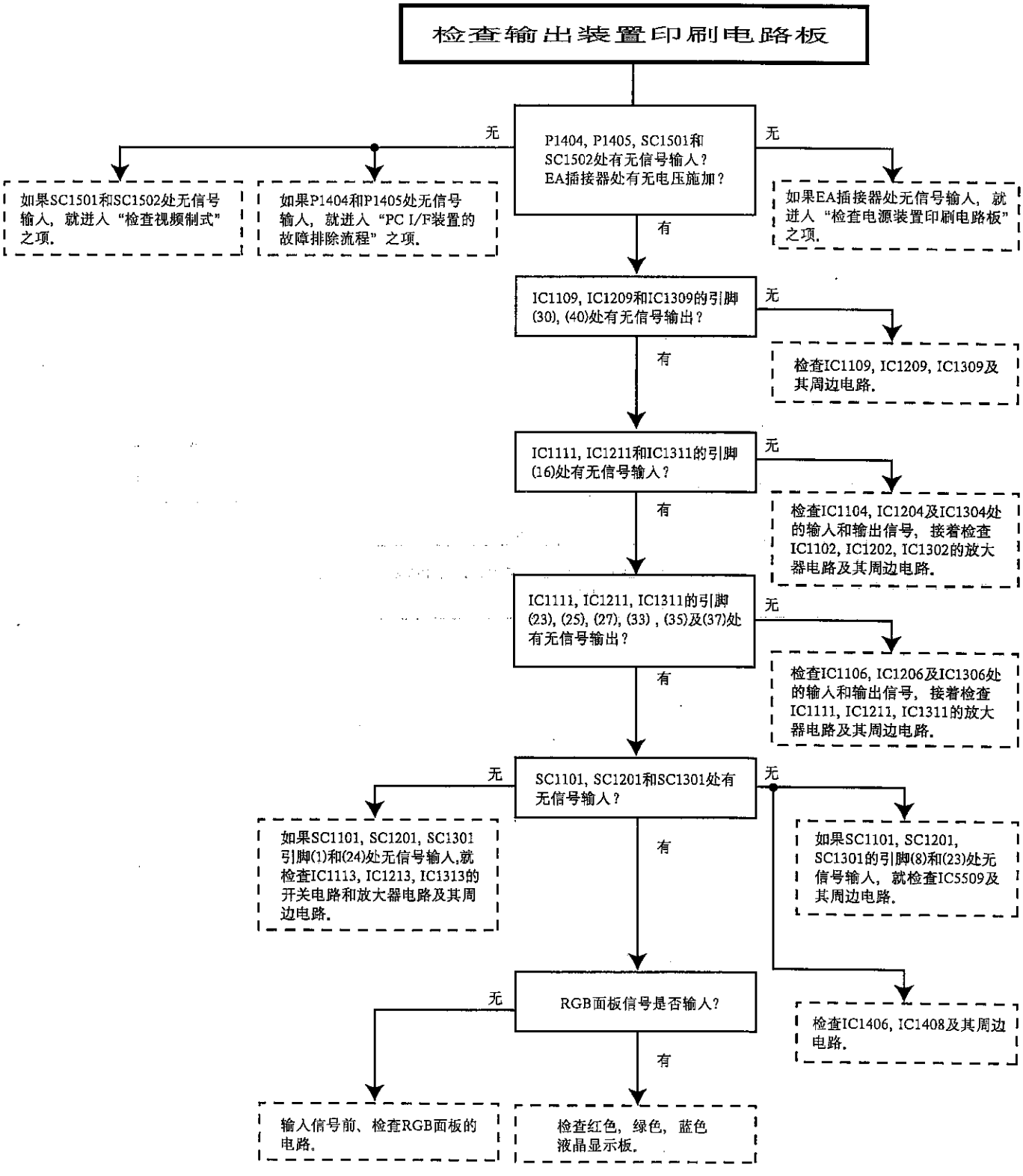
故障排除流程（接上页）


无亮度信号或不正常
IC801的引脚(21)处有无亮度信号输入？
无
有
回至信号处理电路。
IC801的引脚(40)处有无亮度信号输出？
无
有
检查IC801及其周边电路。
IC811的引脚(17)处有无亮度信号输出？
无
有
检查IC805(AGC), IC811及其周边电路。
检查IC803及其周边电路。

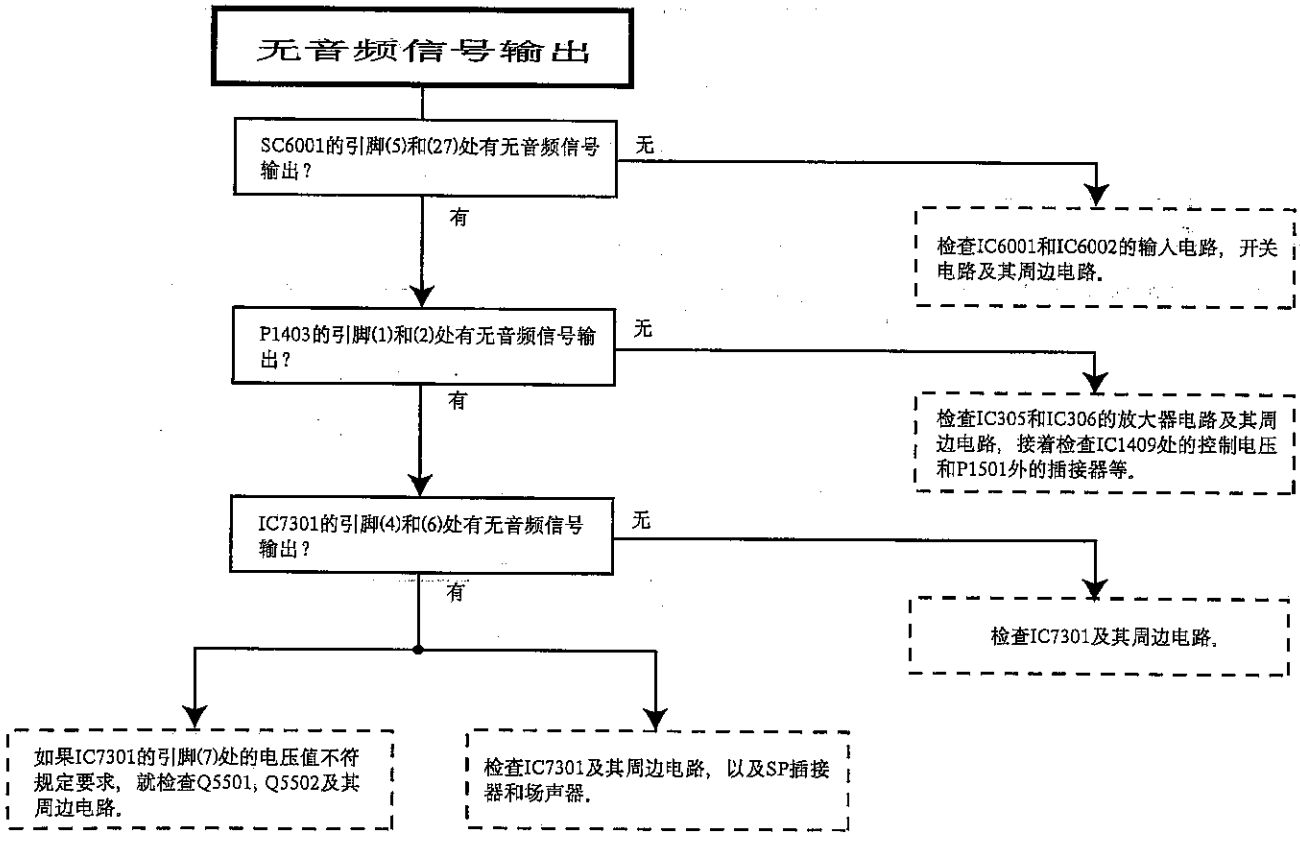

无水平同步脉冲或不正常
IC801的引脚(56)处有无水平同步脉冲输出？
无
有
检查IC801及其周边电路。
IC603的引脚(9)处有无水平同步脉冲输出？
无
有
检查IC602和IC603的脉冲成形电路。
检查IC604及其周边电路，然后进入“PC I/F装置的故障排除流程”之项。


无垂直同步脉冲或不正常
IC801的引脚(4)处有无垂直同步脉冲输出？
无
有
检查IC801及其周边电路。
检查IC604及其周边电路，然后进入“PC I/F装置的故障排除流程”之项。

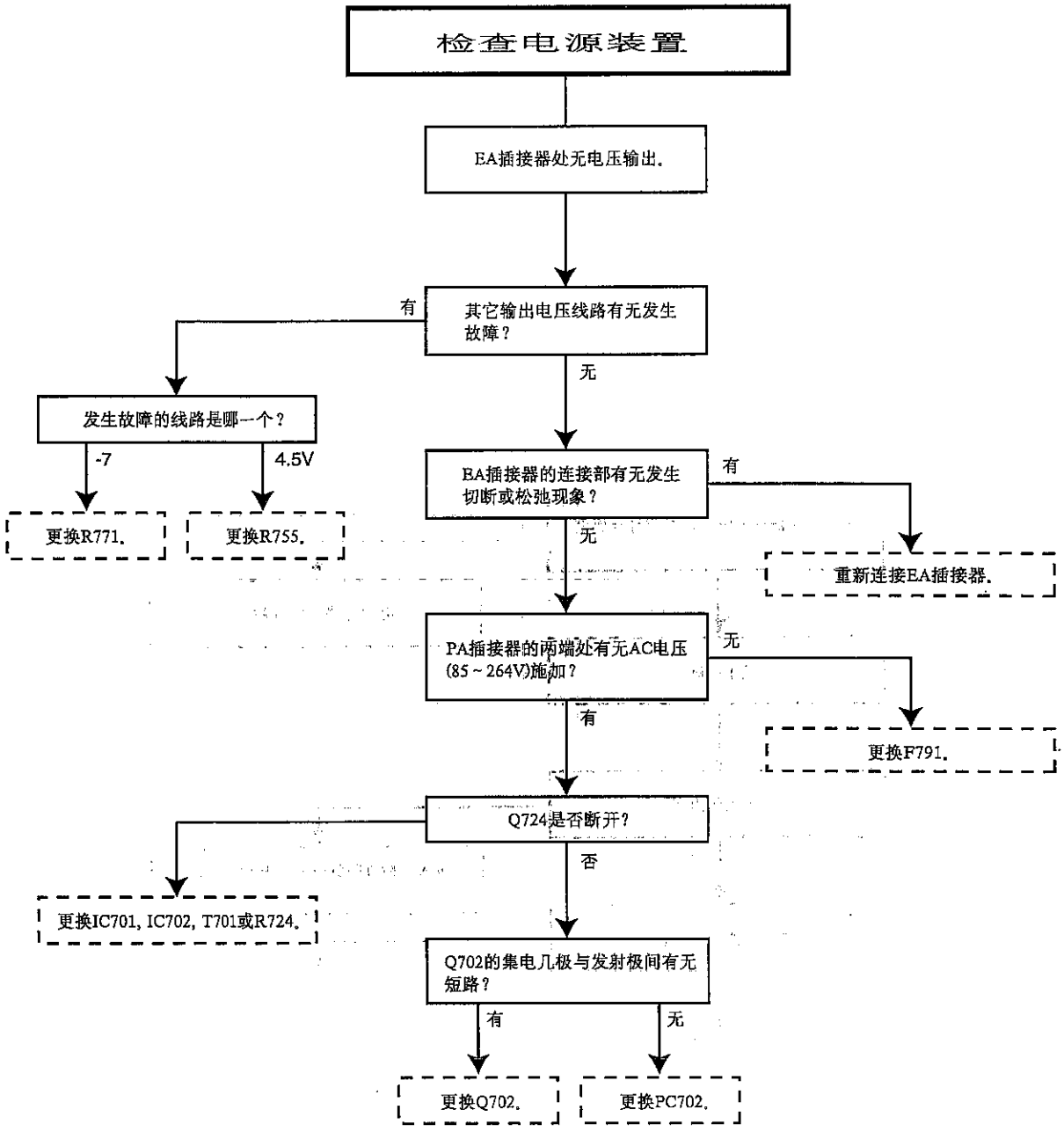
故障排除流程（接上页）


检查输出装置印刷电路板
P1404, P1405, SC1501和SC1502处有无信号输入？EA插接器处有无电压施加？
无
如果SC1501和SC1502处无信号输入，就进入“检查视频制式”之项.
如果P1404和P1405处无信号输入，就进入“PC I/F装置的故障排除流程”之项.
无
如果EA插接器处无信号输入，就进入“检查电源装置印刷电路板”之项.
有
IC1109, IC1209和IC1309的引脚(30), (40)处有无信号输出？
无
检查IC1109, IC1209, IC1309及其周边电路.
有
IC1111, IC1211和IC1311的引脚(16)处有无信号输入？
无
检查IC1104, IC1204及IC1304处的输入和输出信号，接着检查IC1102, IC1202, IC1302的放大器电路及其周边电路.
有
IC1111, IC1211, IC1311的引脚(23), (25), (27), (33) , (35)及(37)处有无信号输出？
无
检查IC1106, IC1206及IC1306处的输入和输出信号，接着检查IC1111, IC1211, IC1311的放大器电路及其周边电路.
有
SC1101, SC1201和SC1301处有无信号输入？
无
如果SC1101, SC1201, SC1301引脚(1)和(24)处无信号输入,就检查IC1113, IC1213, IC1313的开关电路和放大器电路及其周边电路.
无
如果SC1101, SC1201, SC1301的引脚(8)和(23)处无信号输入，就检查IC5509及其周边电路.
有
RGB面板信号是否输入?
无
检查IC1406, IC1408及其周边电路.
有
输入信号前、检查RGB面板的电路。
检查红色，绿色，蓝色液晶显示板.

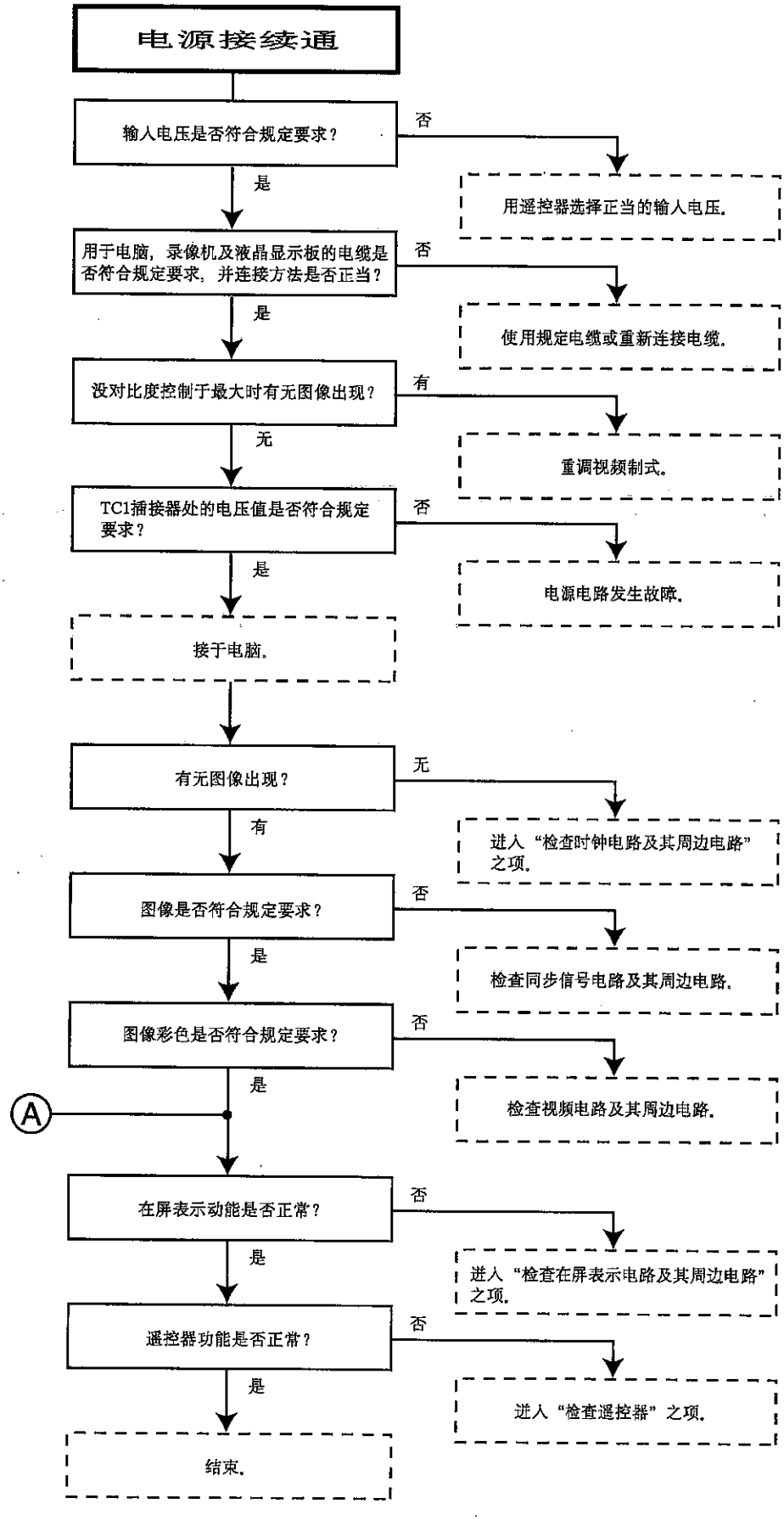
故障排除流程（接上页）


无音频信号输出
SC6001的引脚(5)和(27)处有无音频信号输出？
无
有
检查IC6001和IC6002的输入电路，开关电路及其周边电路。
P1403的引脚(1)和(2)处有无音频信号输出？
无
有
检查IC305和IC306的放大器电路及其周边电路，接着检查IC1409处的控制电压和P1501外的插接器等。
IC7301的引脚(4)和(6)处有无音频信号输出？
无
有
检查IC7301及其周边电路。
如果IC7301的引脚(7)处的电压值不符规定要求，就检查Q5501, Q5502及其周边电路。
检查IC7301及其周边电路，以及SP插接器和扬声器。

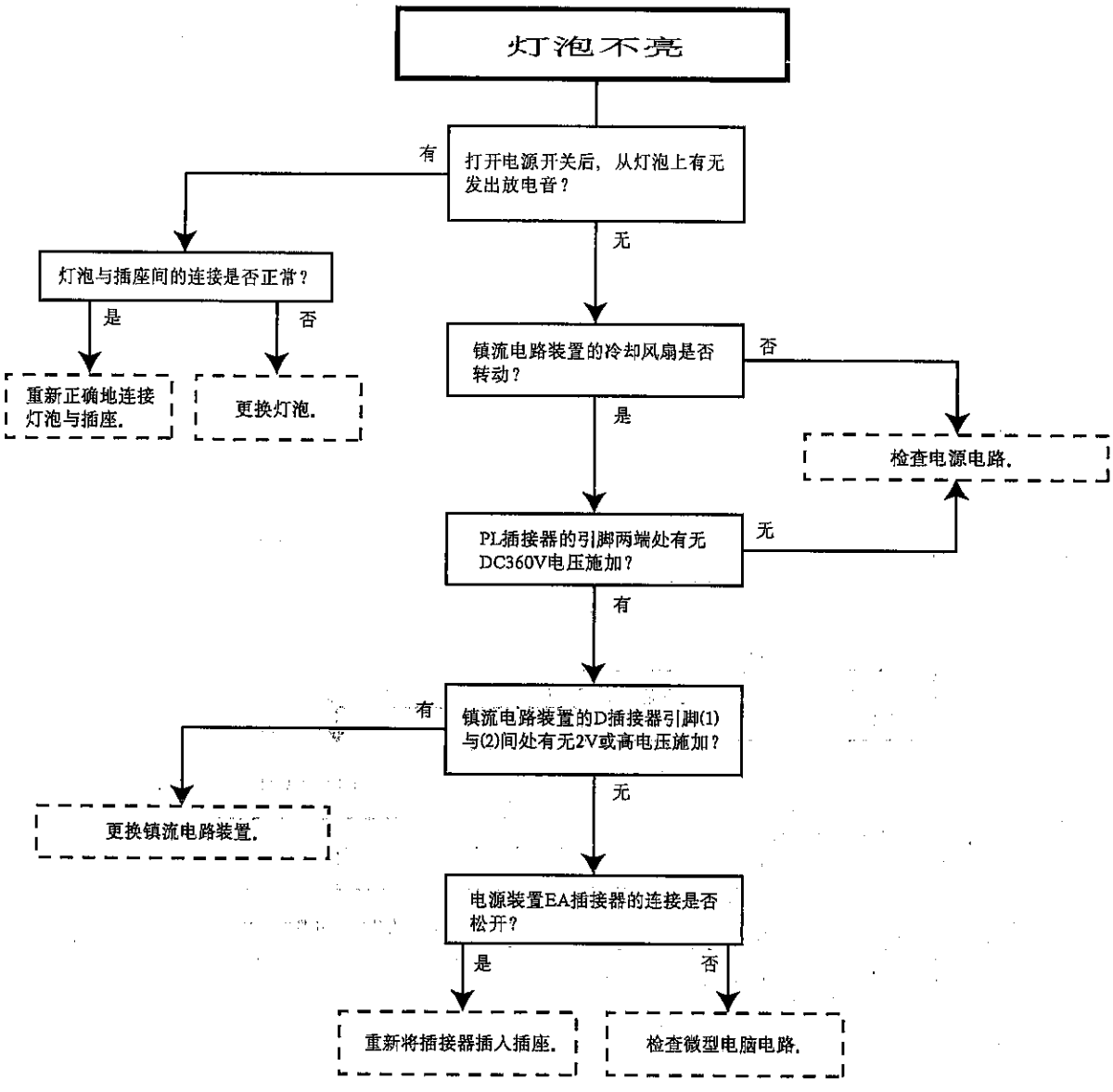
故障排除流程（接上页）


检查电源装置
EA插接器处无电压输出。
其它输出电压线路有无发生故障？
有
无
发生故障的线路是哪一个？
-7
4.5V
更换R771。
更换R755。
BA插接器的连接部有无发生切断或松弛现象？
有
无
重新连接EA插接器。
PA插接器的两端处有无AC电压(85～264V)施加？
无
有
更换F791。
Q724是否断开？
否
更换IC701, IC702, T701或R724。
Q702的集电几极与发射极间有无短路？
有
无
更换Q702。
更换PC702。

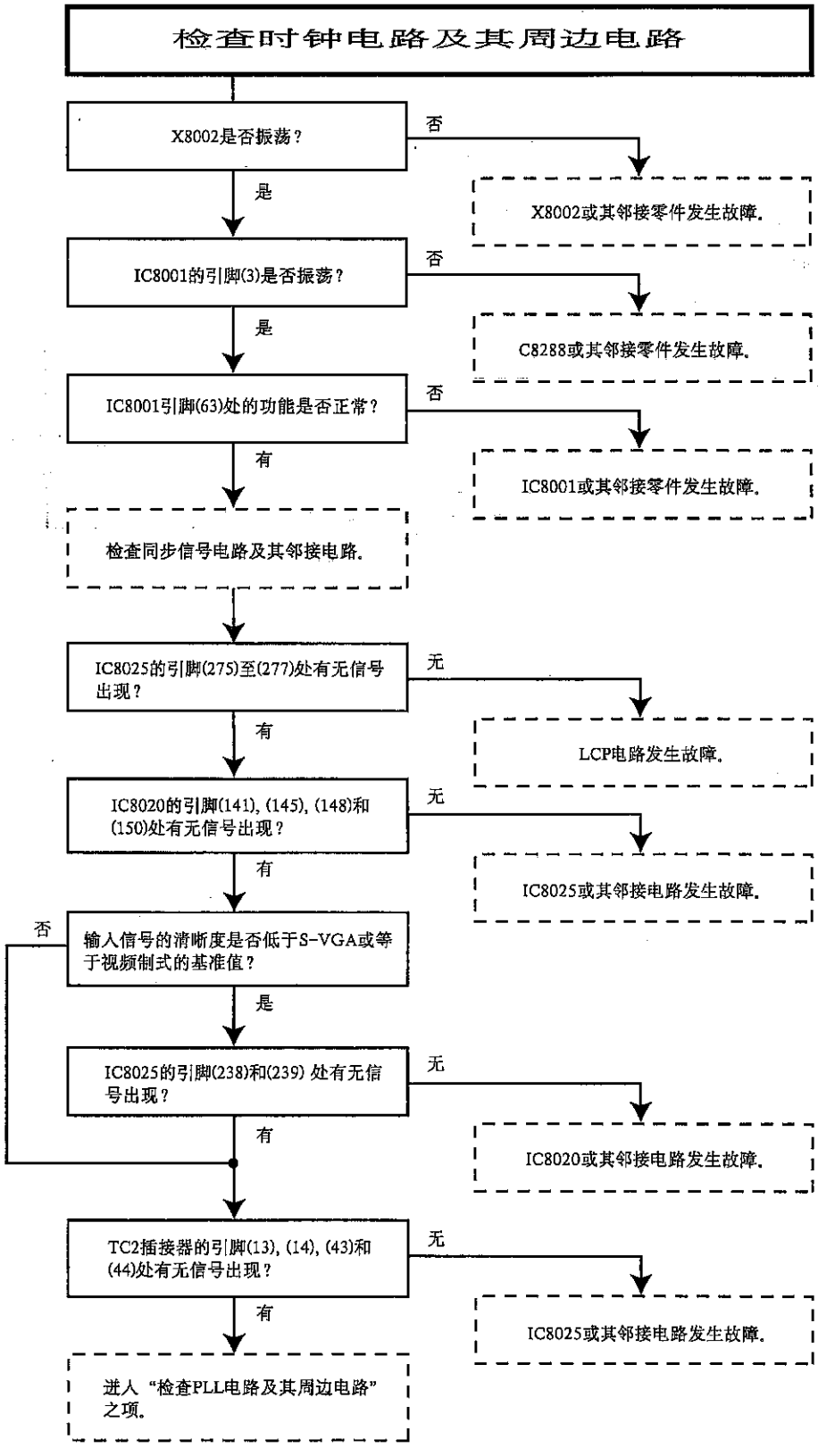
故障排除流程（接上页）


电源接续通
输入电压是否符合规定要求？
否
用遥控器选择正当的输入电压。
是
用于电脑，录像机及液晶显示板的电缆是否符合规定要求，并连接方法是否正当？
否
使用规定电缆或重新连接电缆。
是
没对比度控制于最大时有无图像出现？
有
重调视频制式。
无
TC1插接器处的电压值是否符合规定要求？
否
电源电路发生故障。
是
接于电脑。
有无图像出现？
无
进入“检查时钟电路及其周边电路”之项。
有
图像是否符合规定要求？
否
检查同步信号电路及其周边电路。
是
图像彩色是否符合规定要求？
否
检查视频电路及其周边电路。
是
A
在屏表示动能是否正常？
否
进入“检查在屏表示电路及其周边电路”之项。
是
遥控器功能是否正常？
否
进入“检查遥控器”之项。
是
结束。

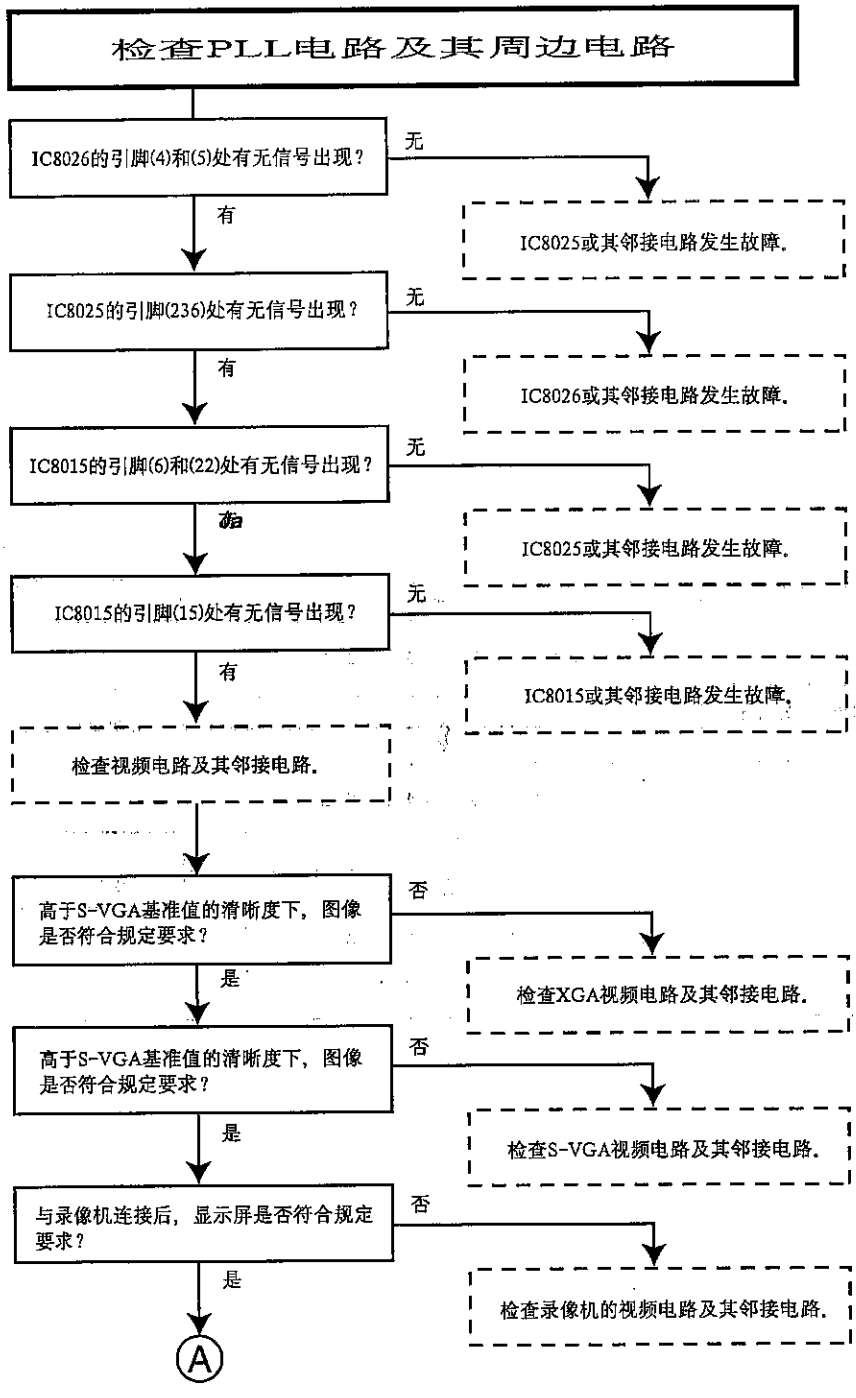
故障排除流程（接上页）


灯泡不亮
打开电源开关后，从灯泡上有无发出放电音？
有
无
灯泡与插座间的连接是否正常？
是
否
重新正确地连接灯泡与插座.
更换灯泡.
镇流电路装置的冷却风扇是否转动？
否
是
检查电源电路.
PL插接器的引脚两端处有无DC360V电压施加？
无
有
镇流电路装置的D插接器引脚(1)与(2)间处有无2V或高电压施加？
有
更换镇流电路装置.
无
电源装置EA插接器的连接是否松开？
是
否
重新将插接器插入插座.
检查微型电脑电路.

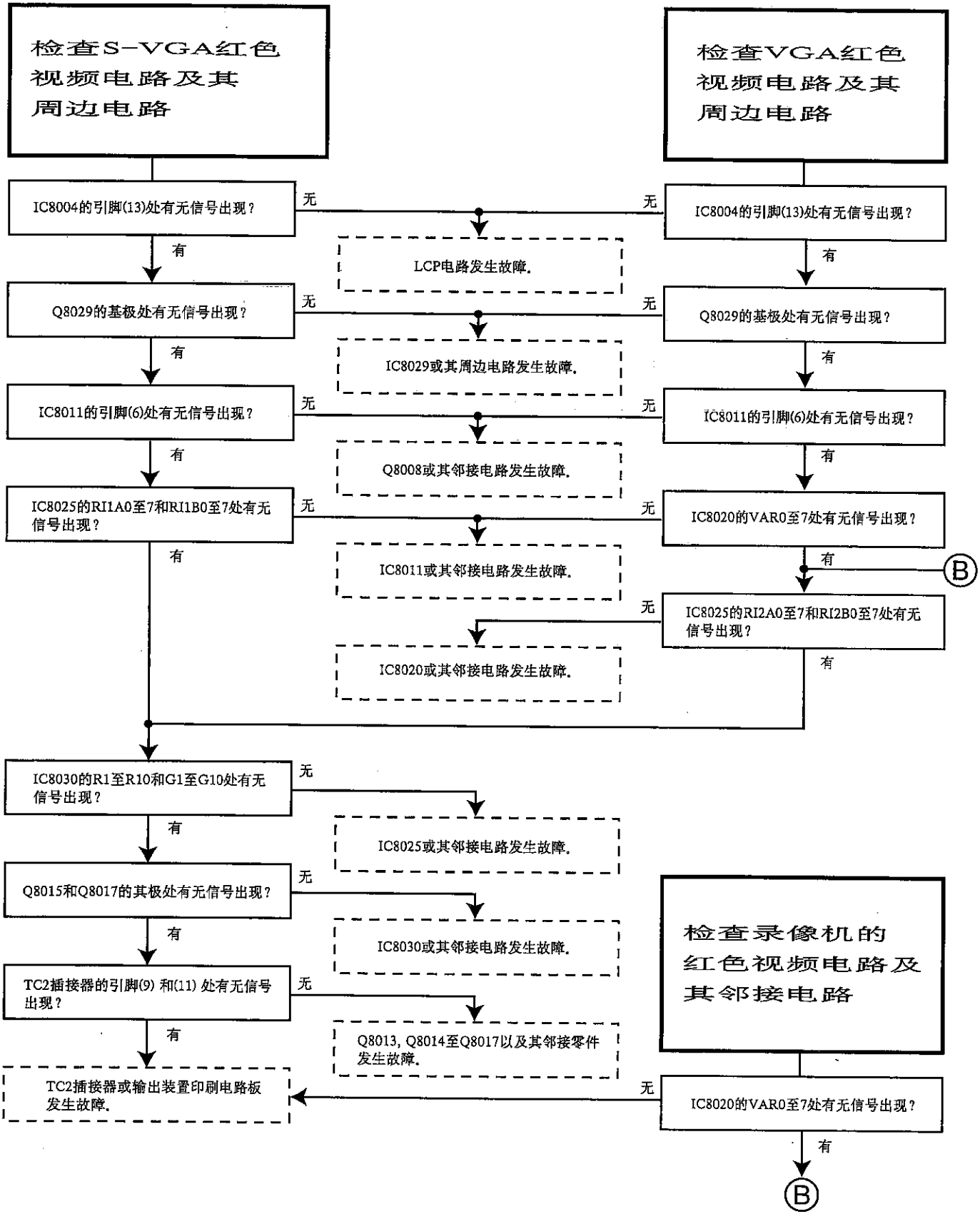
PC I/F 装置 -1 的故障排除流程



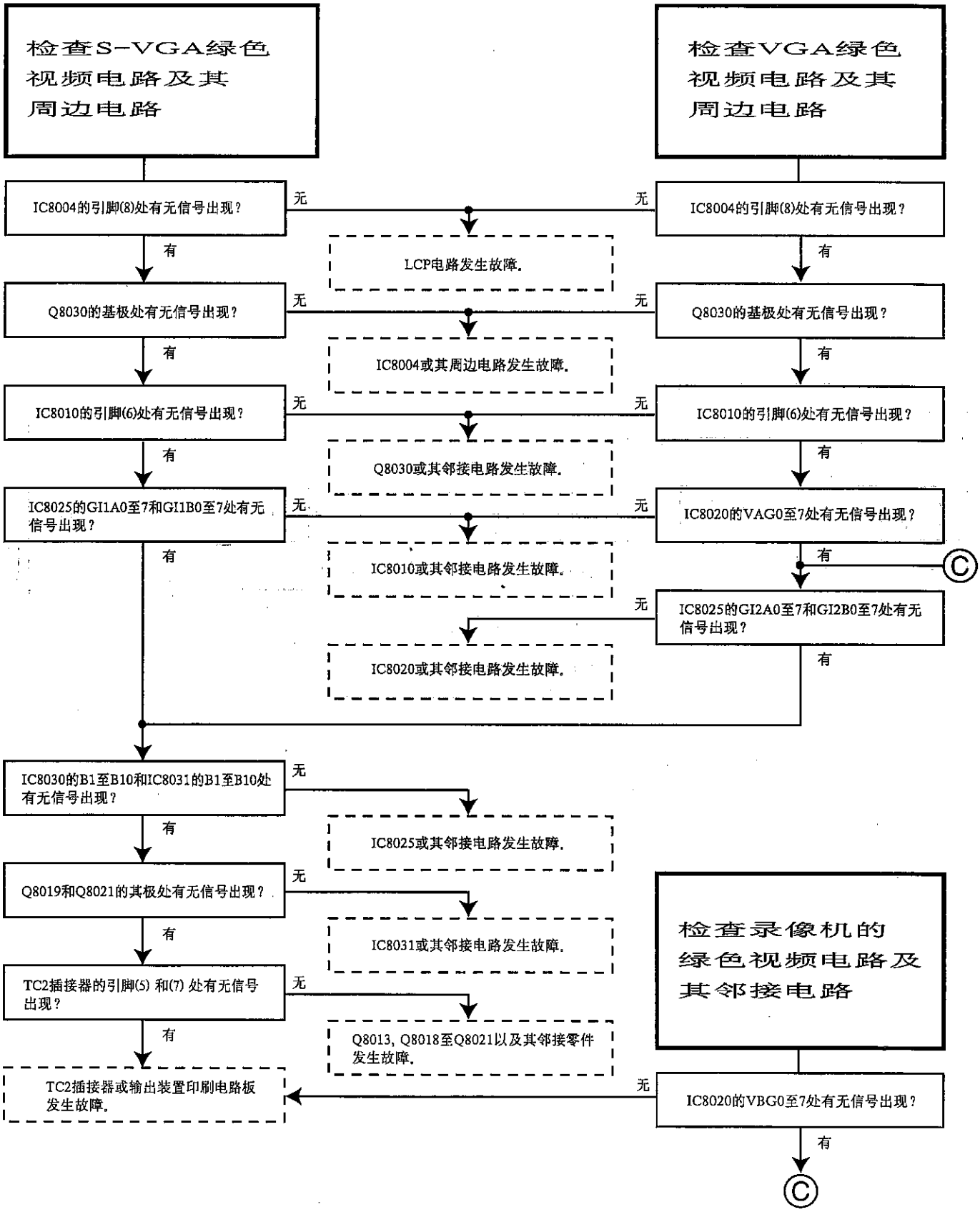
PC I/F 装置 -2 的故障排除流程



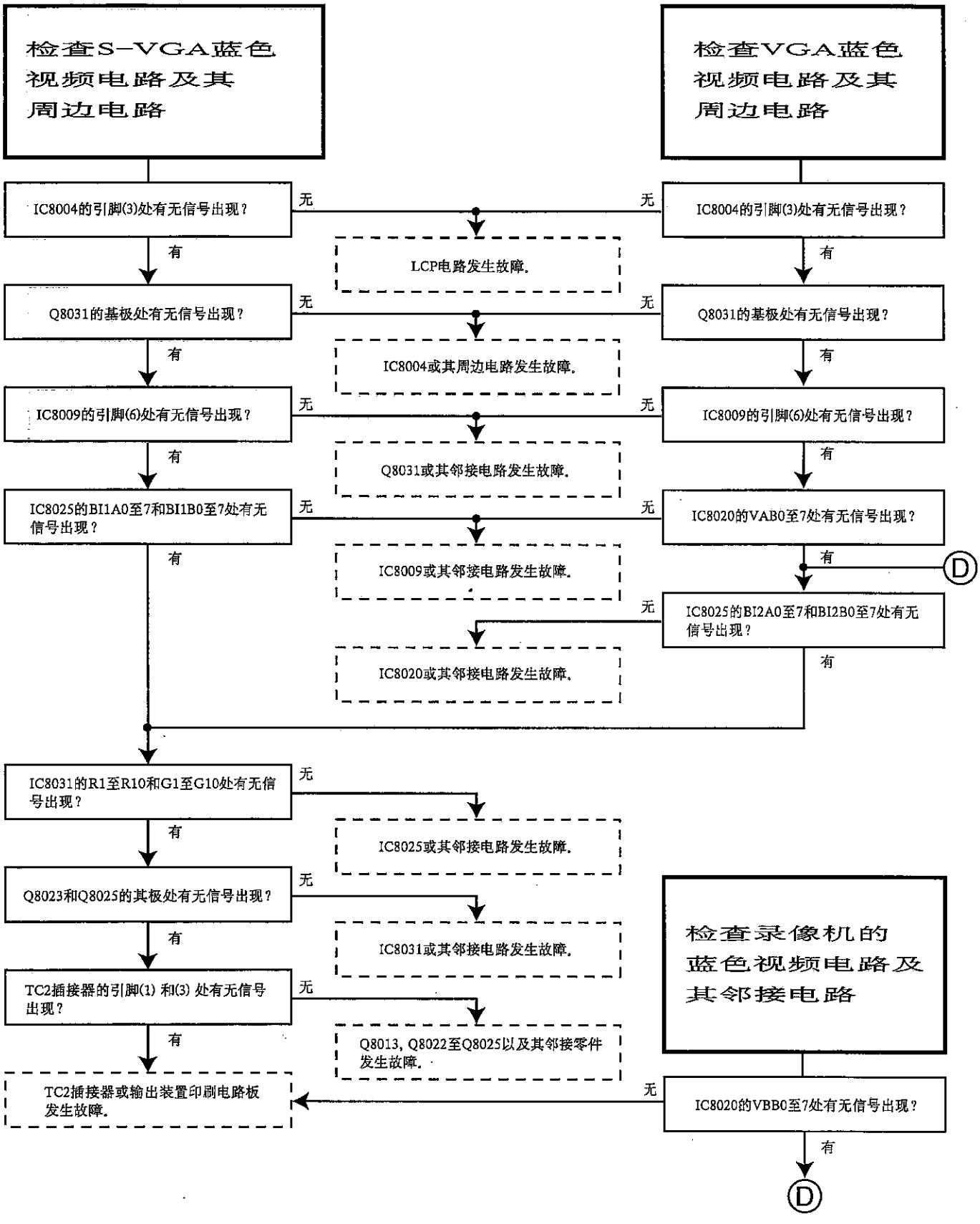
PC I/F 装置 -3 的故障排除流程



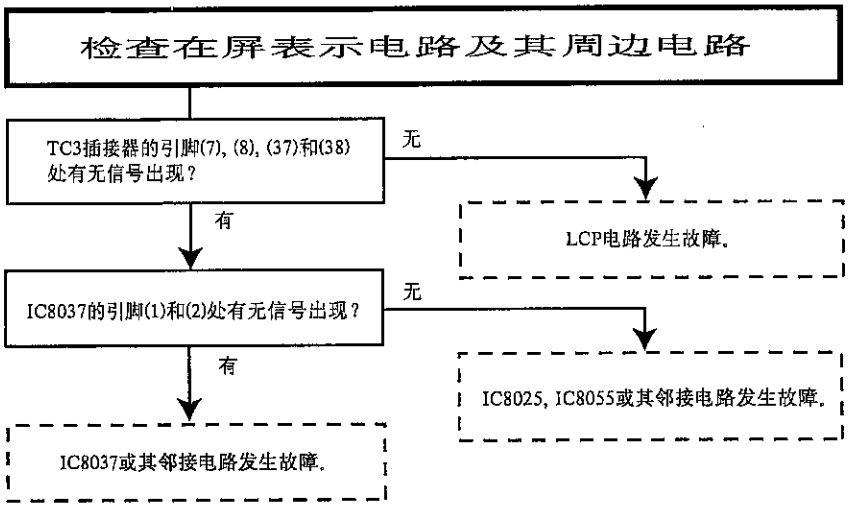
PC I/F 装置 -4 的故障排除流程

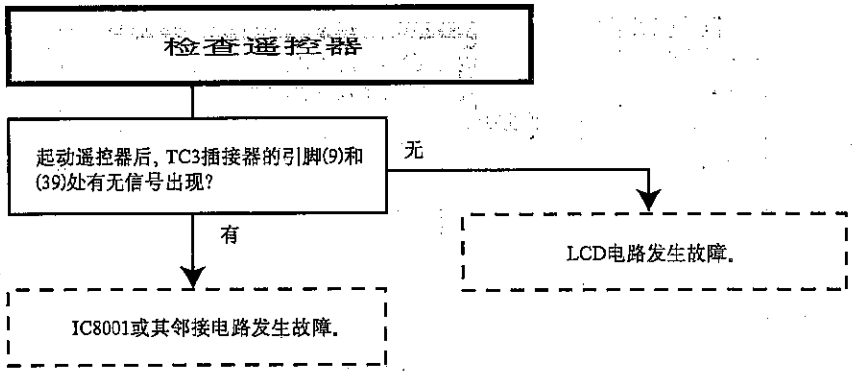


PC I/F 装置 -5 的故障排除流程



PC I/F 装置 -6 的故障排除流程





CHASSIS LAYOUT / CHASSIS-ANORDNUNG
机芯底盘电路布置

OUTPUT UNIT
DUNTK9983DE02/03/04

OUTPUT SUB
DUNTK9984DE02

OPERATION KEY UNIT
RUNTK0607CEZZ

FILTER UNIT
RUNTK0602CEZZ

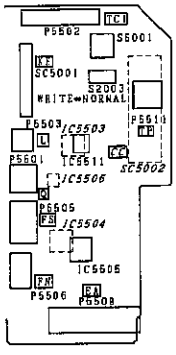
SOUND OUT UNIT
DUNTK9985DE02

R/C RECEIVER UNIT
DUNTK9986DE02/03/04

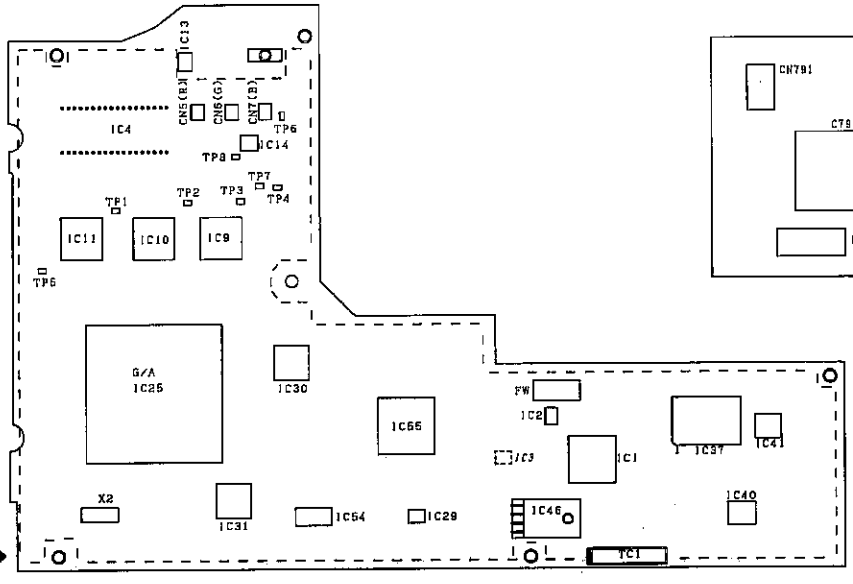
POWER UNIT
RDENC0289CEZZ

BALLAST UNIT
RDENC0286CEZZ

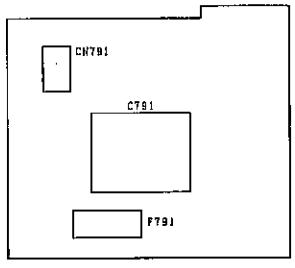
TPUT SUB UNIT
ITK9984DE02/03/04



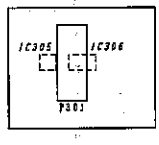
PC I/F UNIT
CPCI-0025CE04



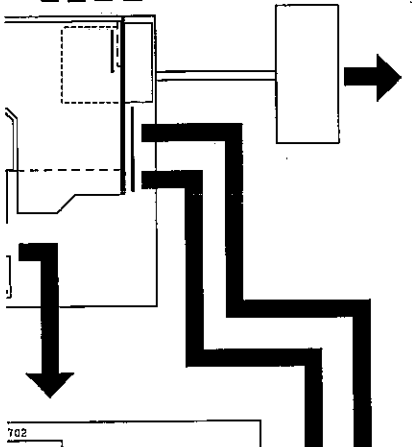
AC-SW UNIT
RUNTK0606CEZZ



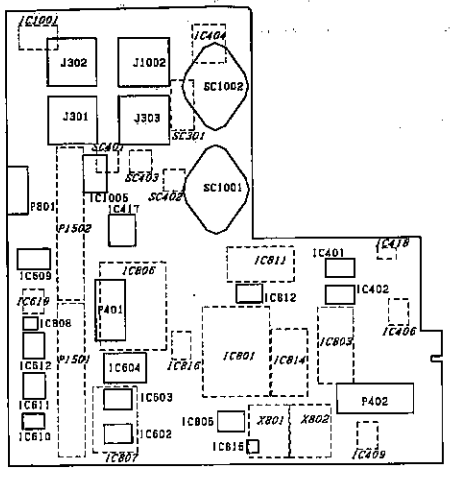
SIGNAL SUB UNIT
DUNTK9747DE12/13/14

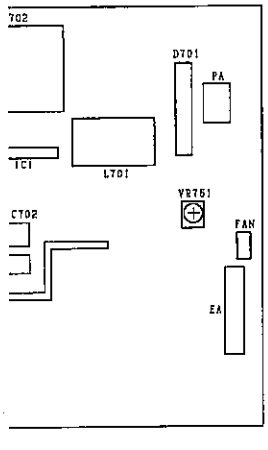


COMPUTER CONTROL
CABLE UNIT
CTANZ0711CE01

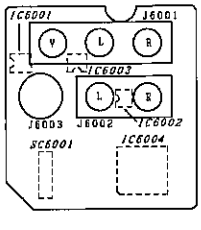


SIGNAL UNIT
DUNTK9746DE12/13/14

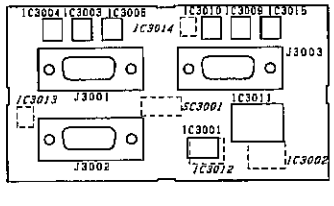




VIDEO BOARD
UNIT
CTANZ0710CE01

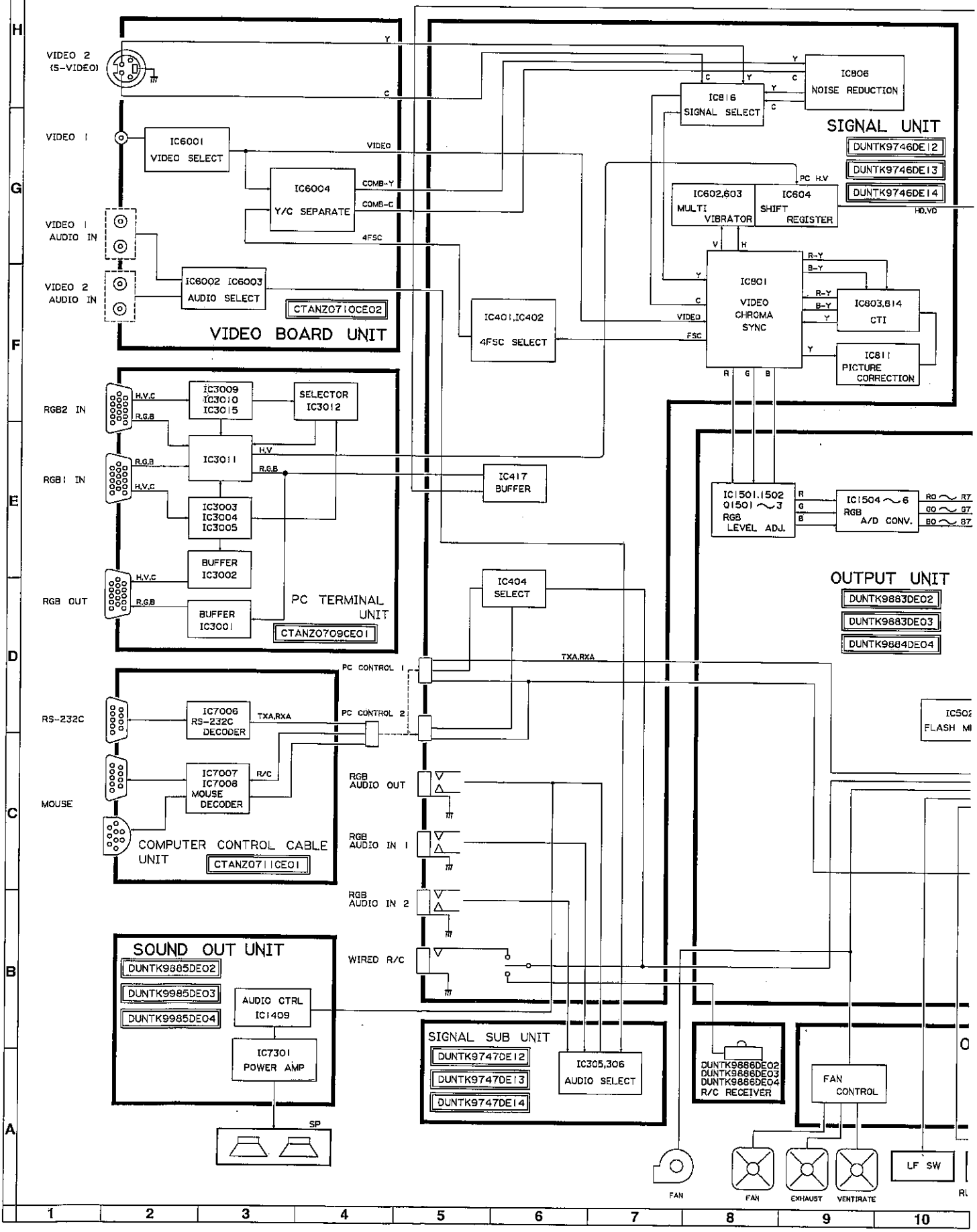


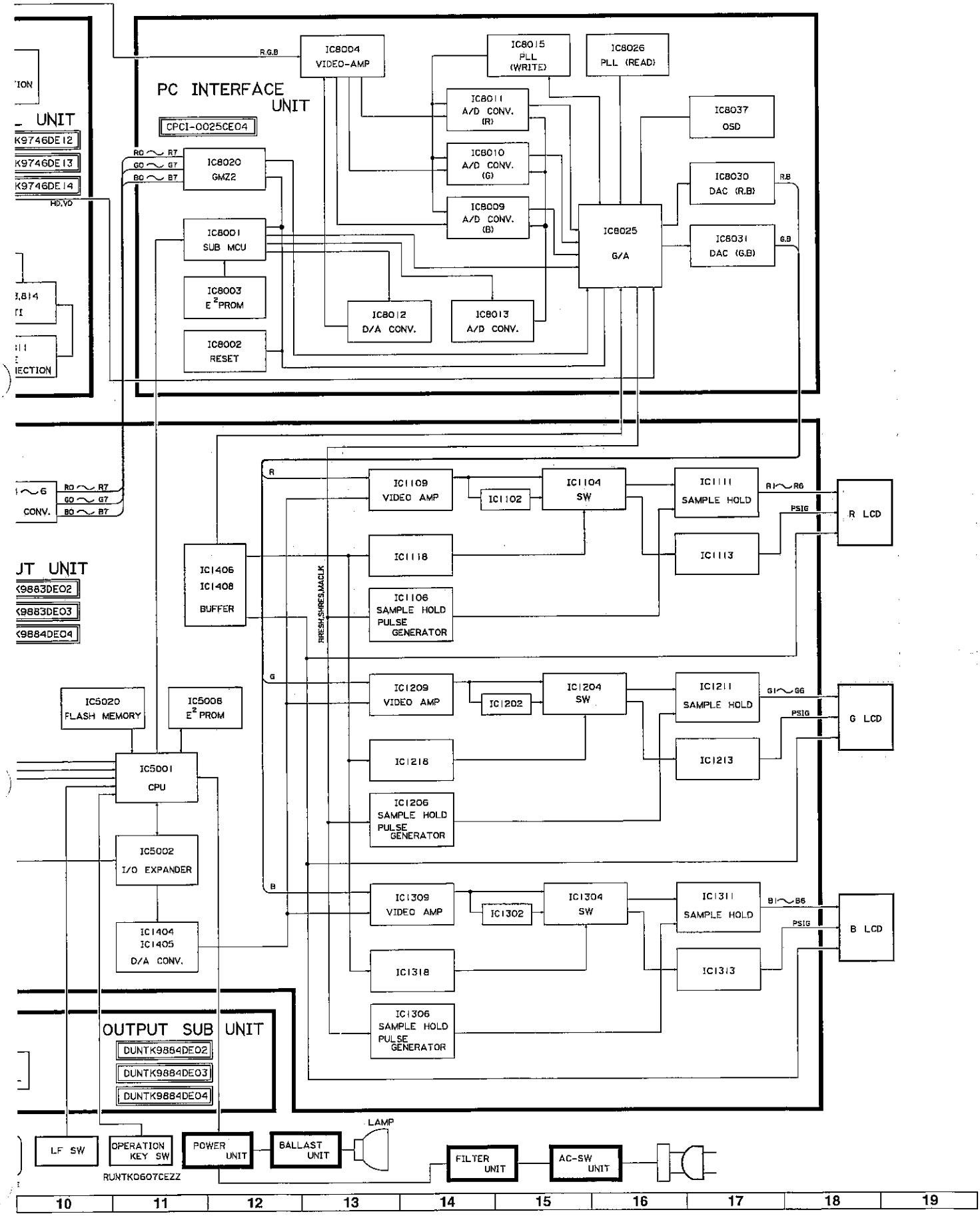
PC TERMINAL UNIT
CTANZ0709CE01



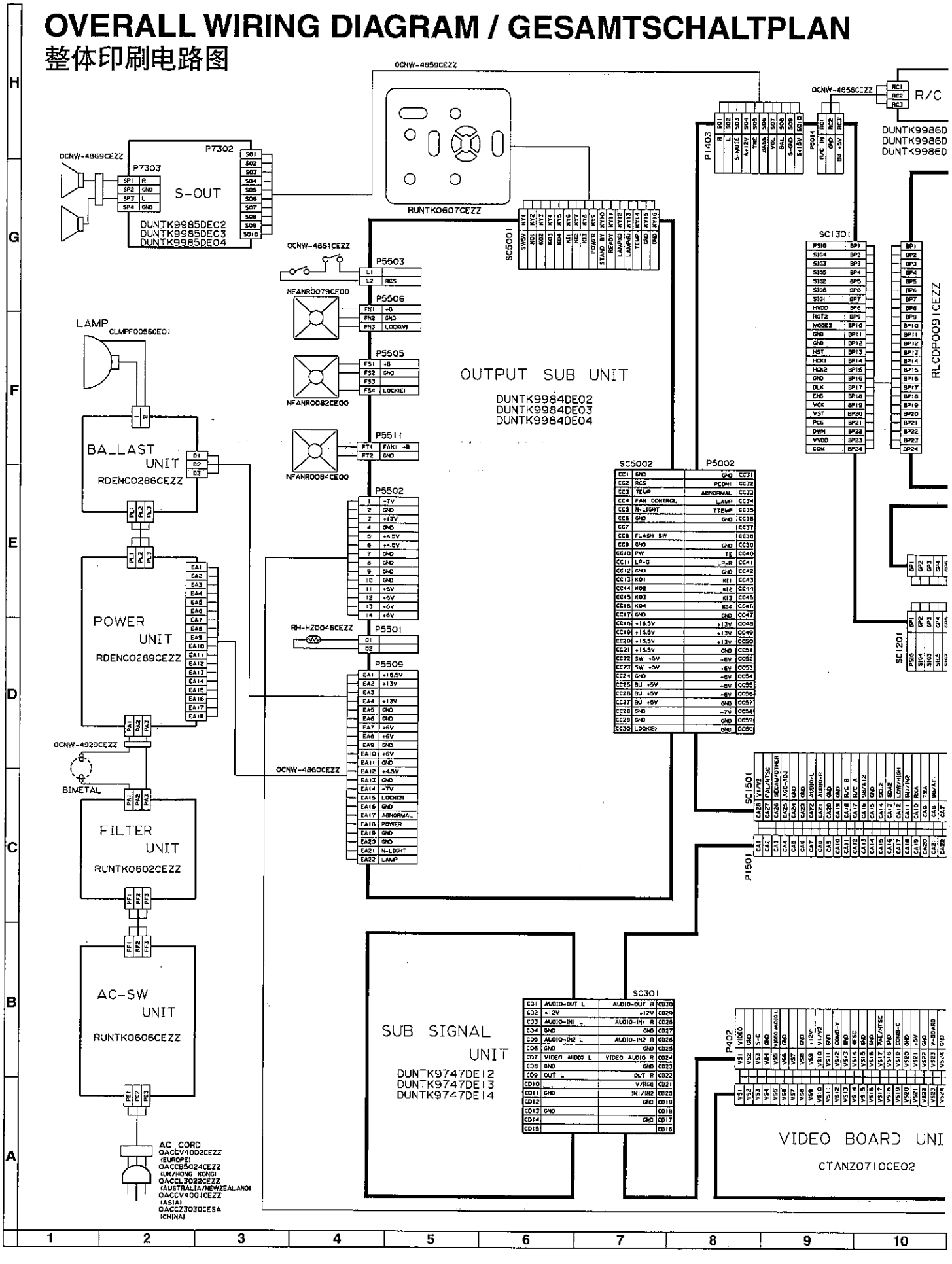
10	11	12	13	14	15	16	17	18	19

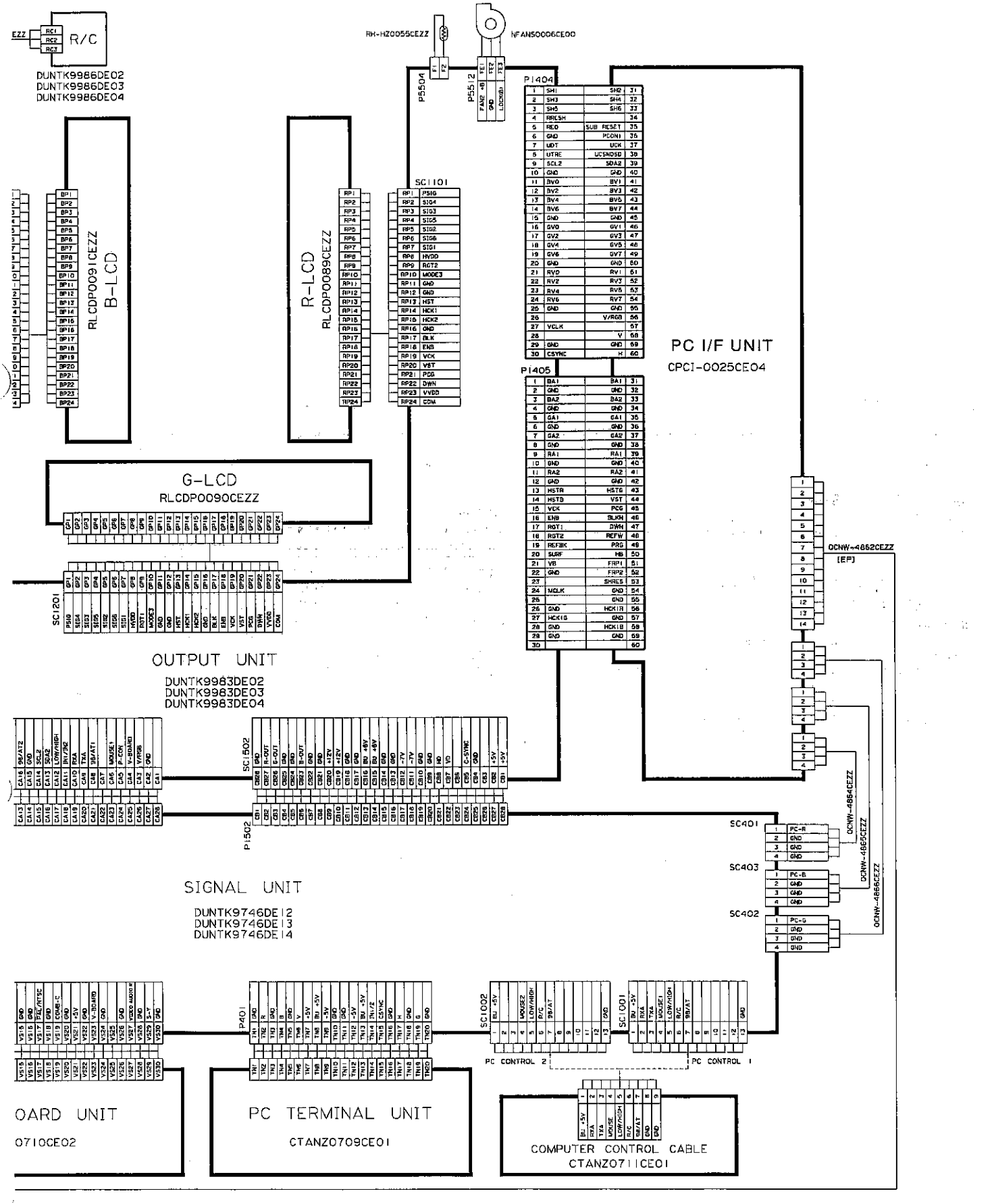
BLOCK DIAGRAM / BLOCKSCHALTBILD 电路方框图




PC INTERFACE UNIT
CPCI-0025CE04
R,G,B
IC8004 VIDEO-AMP
IC8015 PLL (WRITE)
IC8026 PLL (READ)
IC8011 A/D CONV. (R)
IC8010 A/D CONV. (G)
IC8009 A/D CONV. (B)
IC8037 OSD
IC8030 DAC (R,B)
IC8031 DAC (G,B)
IC8025 G/A
IC8020 GMZ2
IC8001 SUB MCU
IC8003 E²PROM
IC8002 RESET
IC8012 D/A CONV.
IC8013 A/D CONV.
HD,VD
R0 ~ R7
G0 ~ G7
B0 ~ B7
IC1109 VIDEO AMP
IC1102
IC1104 SW
IC1111 SAMPLE HOLD
R LCD
IC1118
IC1113
IC1406 IC1408 BUFFER
IC1106 SAMPLE HOLD PULSE GENERATOR
IC1209 VIDEO AMP
IC1202
IC1204 SW
IC1211 SAMPLE HOLD
G LCD
IC1218
IC1213
IC1206 SAMPLE HOLD PULSE GENERATOR
IC1309 VIDEO AMP
IC1302
IC1304 SW
IC1311 SAMPLE HOLD
B LCD
IC1318
IC1313
IC1306 SAMPLE HOLD PULSE GENERATOR
IC5020 FLASH MEMORY
IC5006 E²PROM
IC5001 CPU
IC5002 I/O EXPANDER
IC1404 IC1405 D/A CONV.
OUTPUT SUB UNIT
DUNTK9884DE02
DUNTK9884DE03
DUNTK9884DE04
LF SW
OPERATION KEY SW
RUNTK0607CEZZ
POWER UNIT
BALLAST UNIT
LAMP
FILTER UNIT
AC-SW UNIT
10
11
12
13
14
15
16
17
18
19

OVERALL WIRING DIAGRAM / GESAMTSCHALTPLAN
整体印刷电路图




R/C
DUNTK9986DE02
DUNTK9986DE03
DUNTK9986DE04
RH-HZ0055CEZZ
NFAN50006CE00
P5504
P5512
P1404
P1405
PC I/F UNIT
CPCI-0025CE04
SC1101
B-LCD
RLCDP0091CEZZ
R-LCD
RLCDP0089CEZZ
G-LCD
RLCDP0090CEZZ
SC1201
OUTPUT UNIT
DUNTK9983DE02
DUNTK9983DE03
DUNTK9983DE04
SC1502
P1502
SIGNAL UNIT
DUNTK9746DE12
DUNTK9746DE13
DUNTK9746DE14
OCNW-4662CEZZ
[EP]
OCNW-4664CEZZ
OCNW-4665CEZZ
OCNW-4666CEZZ
SC401
SC403
SC402
P401
SC1002
SC1001
PC CONTROL 2
PC CONTROL 1
OARD UNIT
0710CE02
PC TERMINAL UNIT
CTANZ0709CE01
COMPUTER CONTROL CABLE
CTANZ0711CE01

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 220V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 230V. Signals are fed by a colour bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/10W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
   - Ⓒ : Solid
   - Ⓦ : Cement
   - Ⓢ : Oxide Film
   - Ⓣ : Special
   - Ⓝ : Metal Coating

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
   - (ML): Mylar
   - (TA): Tantalum
   - (PF): Polypro Film
   - (ST): Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTES:

1. ***DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.***
2. ***SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.***

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" ([redacted])ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

BESCHREIBUNG DES SCHEMATISCHEN SCHALTPLANS

SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpunkten werden bei einer Netzspannung von 220V gemessen, Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 kΩ/V) ermittelt.

SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpunkten werden bei einer Netzspannung von 230V verfolgt. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt.

BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

WIDERSTAND

1. Die Widerstandseinheit "Ω" wird weggelassen. (K=kΩ=1000 Ω, M=MΩ).
2. Alle Widerstände haben ± 5%, sofern nicht anders angegeben. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. Alle Widerstände haben 1/10W, sofern nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofern nicht anders angegeben.
   - Ⓒ : Fest
   - Ⓦ : Zement
   - Ⓢ : Oxidfilm
   - Ⓣ : Spezial
   - Ⓝ : Metallüberzug

KONDENSATOR

1. Die Kapazitätseinheit ist μF, sofern nicht anders angegeben. (P=pF=μμF).
2. Alle Kondensatoren haben 50V, sofern nicht anders angegeben.
3. Alle Kondensatoren sind Keramiktyp, sofern nicht anders angegeben.
   - (ML): Mylar
   - (TA): Tantal
   - (PF): Polyprofilm
   - (ST): Styrol

ACHTUNG:
bei diesem Schaltplan handelt es sich um den ursprünglichen. Esönnen daher geringfügige Unterschiede zu dem Ihrem bestehen.

SICHERHEITSANMERKUNGEN:

1. ***VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZSTECKDOSE GEZOGEN WERDEN.***
2. ***DIE WARMEABLEITER DER HALBLEITER SOLLTEN BEIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRLICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.***

WICHTIGE SICHERHEITSANMERKUNGEN:

MIT "⚠"([redacted])BEZEICHNETEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRECHTERHALTUNG DER SICHERHEIT . BEIM WECHDIESER TEILE SOLLTEN DIE VORGESCHRIEBENEN TEILE IMMER VERWENDET WERDEN, UM SOWOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRECHTZUERHALTEN.

电 路 原 理 图 的 说 明

电压测定条件：

1. 各测试点上的电压值是用AC220V电源电压来测定的，各种信号由维修专用的彩条信号发生器产生的，各种有关电压值是用20千欧姆/伏测试仪测定的。

波形测定条件：

1. 各测试点上的波形是用AC230V电源电压观察到的，各种信号由维修专用的彩条信号发生器产生的。

电阻与电容器的表示：

电阻

1. 电阻欧姆"Ω"单位予以略记。（K = kΩ = 1000Ω，M = 兆Ω）。
2. 除特别说明者外，所有的电阻为 ± 5%。（J = ± 5%，F = ± 1%，D = ± 0.5%）。
3. 除特别说明者外，所有的电阻功率为1/10W。
4. 除特别说明者外，所有的电阻为碳质。
   - Ⓒ：固体电阻
   - Ⓦ：陶瓷电阻
   - Ⓢ：氧化膜电阻
   - Ⓣ：特殊电阻
   - Ⓝ：金属涂层电阻

电容器

1. 除特别说明者外，所有的电容器单位为微法(μF)。（P = 微微法 = μμF）。
2. 除特别说明者外，所有的电容器为50伏。
3. 除特别说明者外，所有的电容器为陶瓷质。
   - (ML)：聚酯薄膜电容器
   - (TA)：钽质电容器
   - (PF)：聚乙烯薄膜电容器
   - (ST)：聚苯乙烯电容器

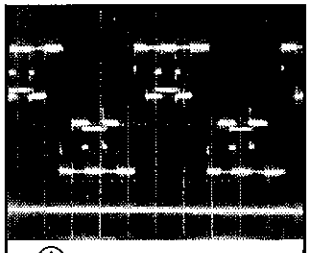
注意：
这里的电路原理图均为最初设计原理图，与您的机器的电路原理图可能有不同之处。

安全使用注意事项：

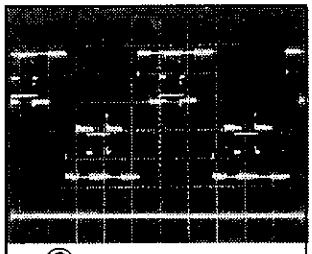
1. 在进行部件更换之前，务请拔出电源插头。
2. 本装置工作时，机芯底盘的半导体散热片有触电之虑，务请注意。

安全使用注意要点：
标有"⚠"([redacted])的部件对于投影机安全的维护有至关重要的意义。为了维护本机的安全和使本机能正常工作，必须使用指定品来更换这些部件。

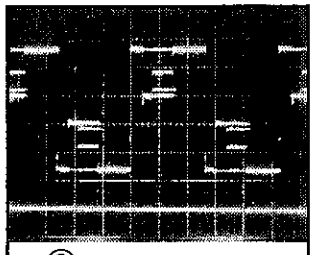
WAVEFORMS
WELLENFORMEN
波形图



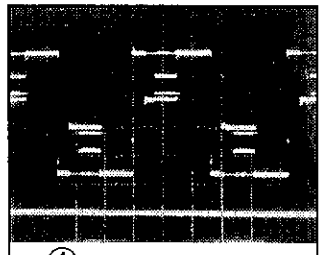
① SC1101 4-pin
(RP SIG5)
H : 10µsec/div
V : 2V/div



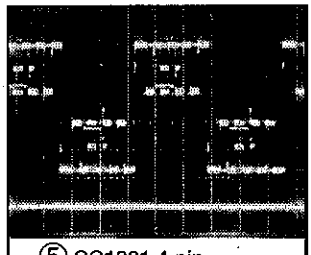
② SC1101 6-pin
(RP SIG6)
H : 10µsec/div
V : 2V/div



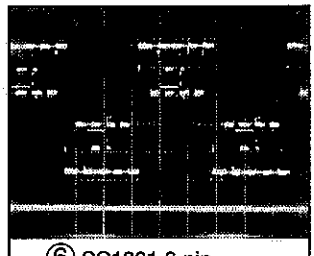
③ SC1201 4-pin
(GP SIG5)
H : 10µsec/div
V : 2V/div



④ SC1201 6-pin
(GP SIG6)
H : 10µsec/div
V : 2V/div

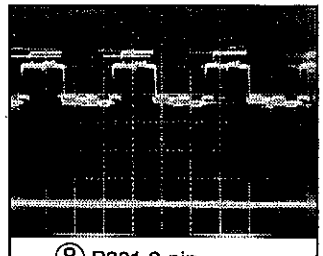


⑤ SC1301 4-pin
(BP SIG5)
H : 10µsec/div
V : 2V/div

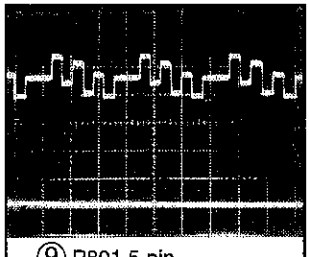


⑥ SC1301 6-pin
(BP SIG6)
H : 10µsec/div
V : 2V/div

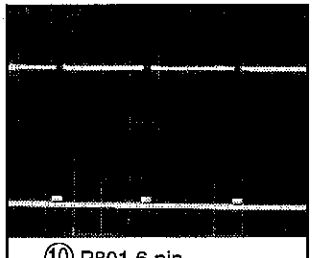
⑦ P801 1-pin
(R)
H : 10µsec/div
V : 0.5V/div



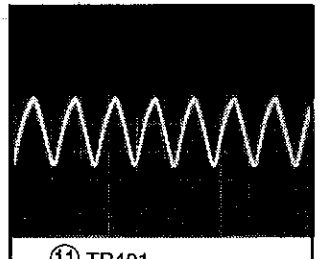
⑧ P801 2-pin
(G)
H : 20µsec/div
V : 0.5V/div



⑨ P801 5-pin
(B-Y)
H : 20µsec/div
V : 1V/div

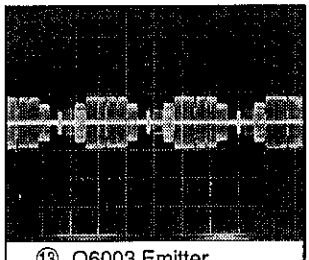


⑩ P801 6-pin
(H-OUT)
H : 20µsec/div
V : 1V/div



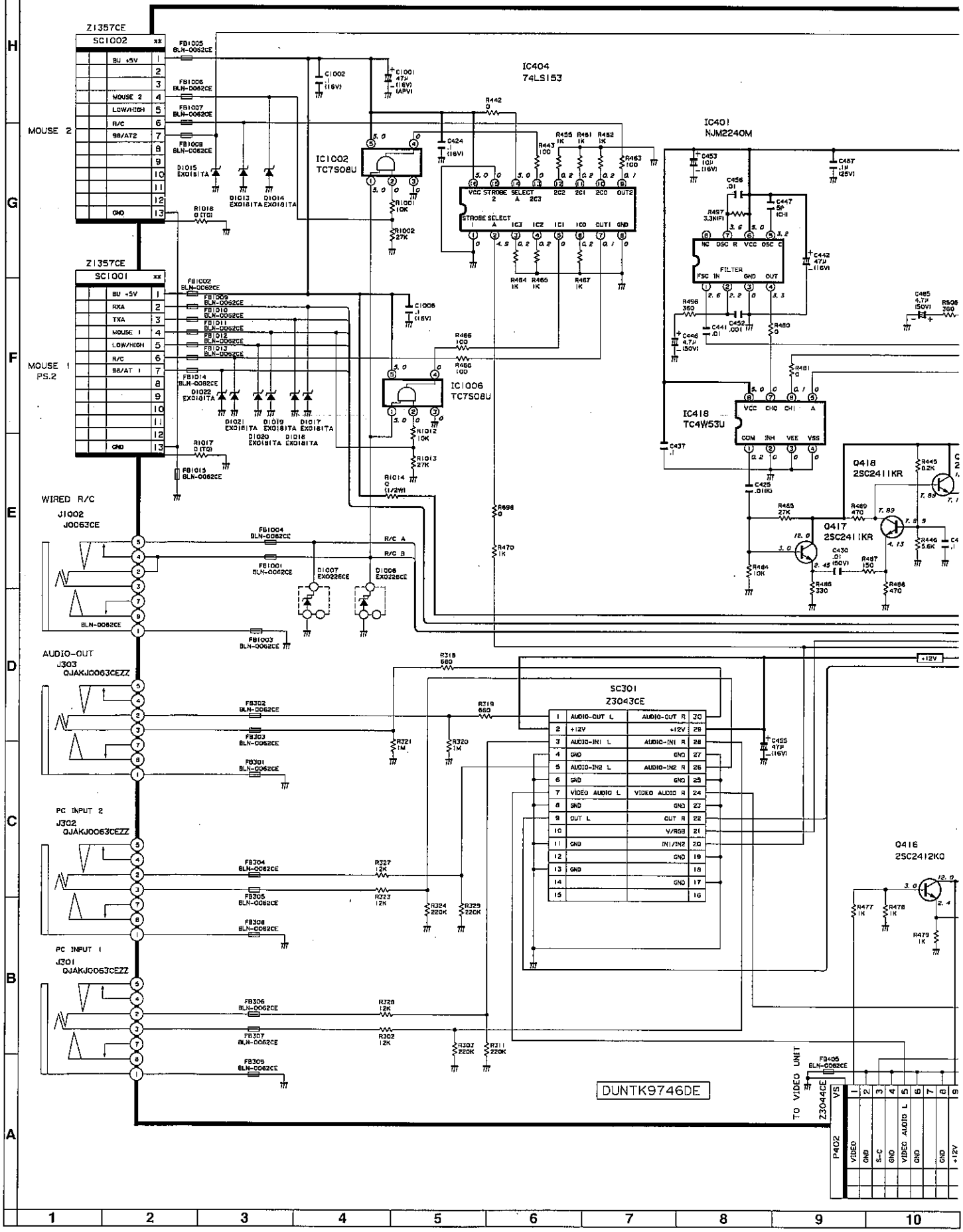
⑪ TP401
(4FSC)
H : 50µsec/div
V : 0.5V/div

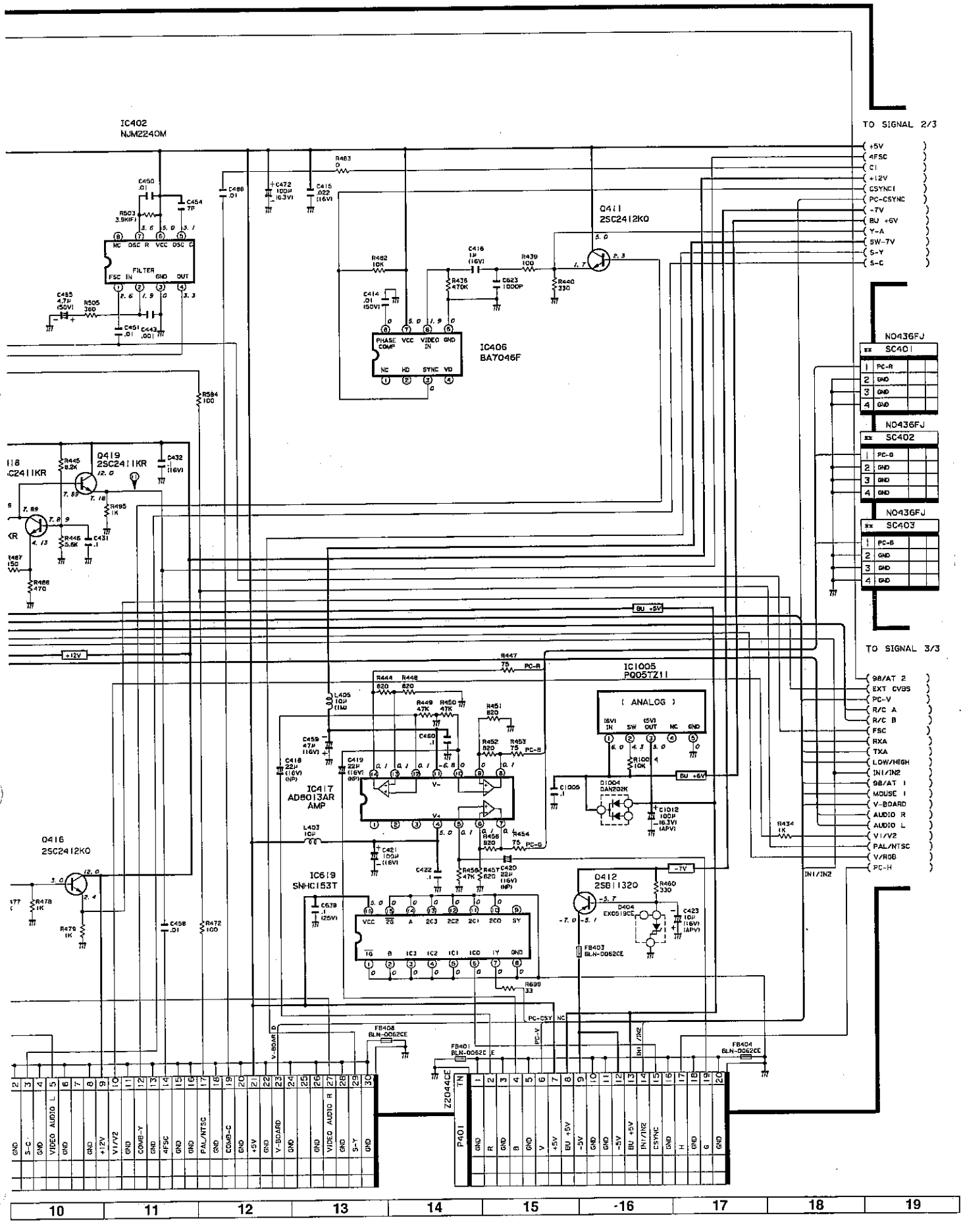
⑫ Q6008 Emitter
(Y-signal)
H : 10µsec/div
V : 0.2V/div



⑬ Q6003 Emitter
(CHROMA signal)
H : 10µsec/div
V : 0.2V/div

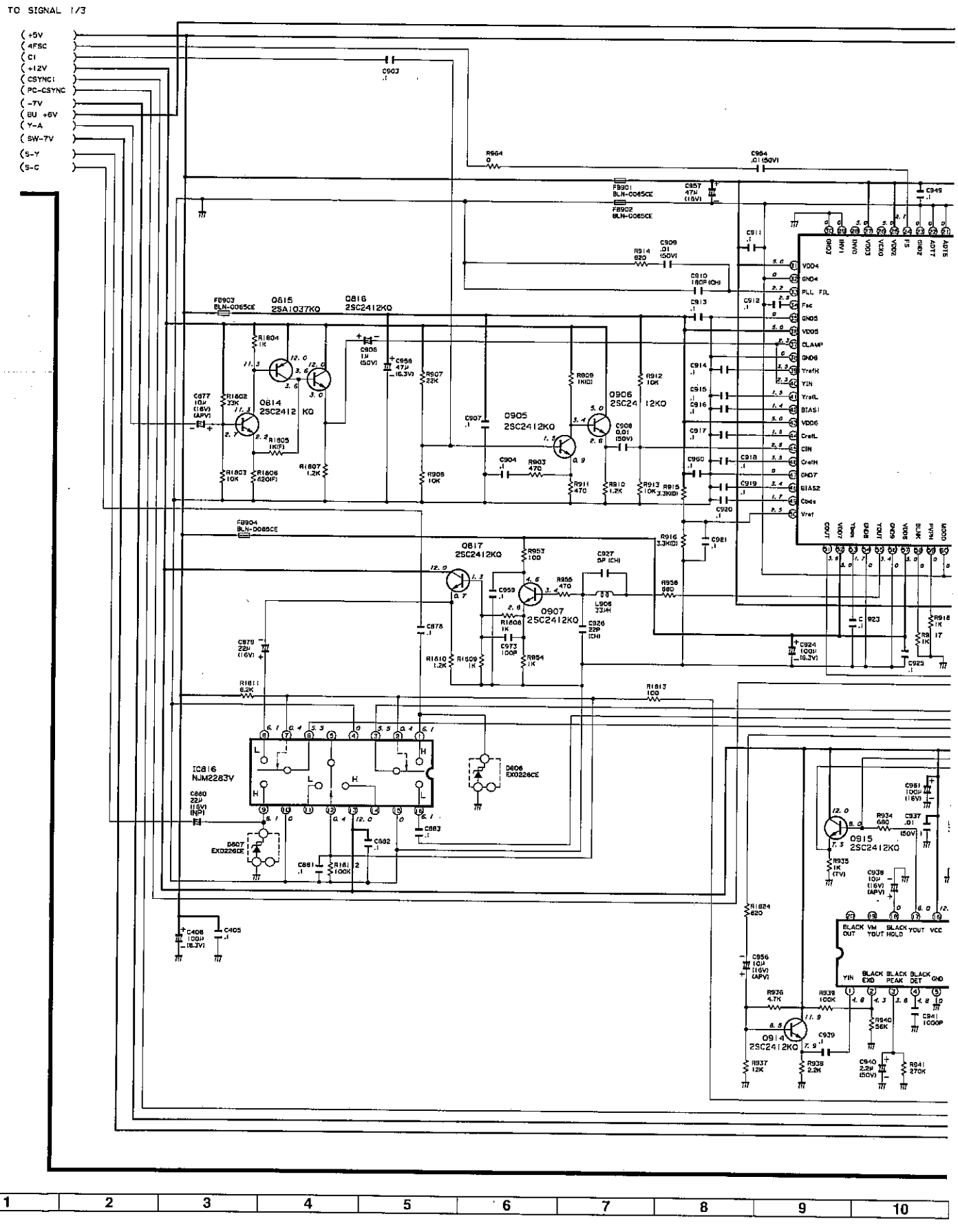
■ SIGNAL UNIT-1/3 / SIGNALEINHEIT-1/3 信号电路装置-1/3

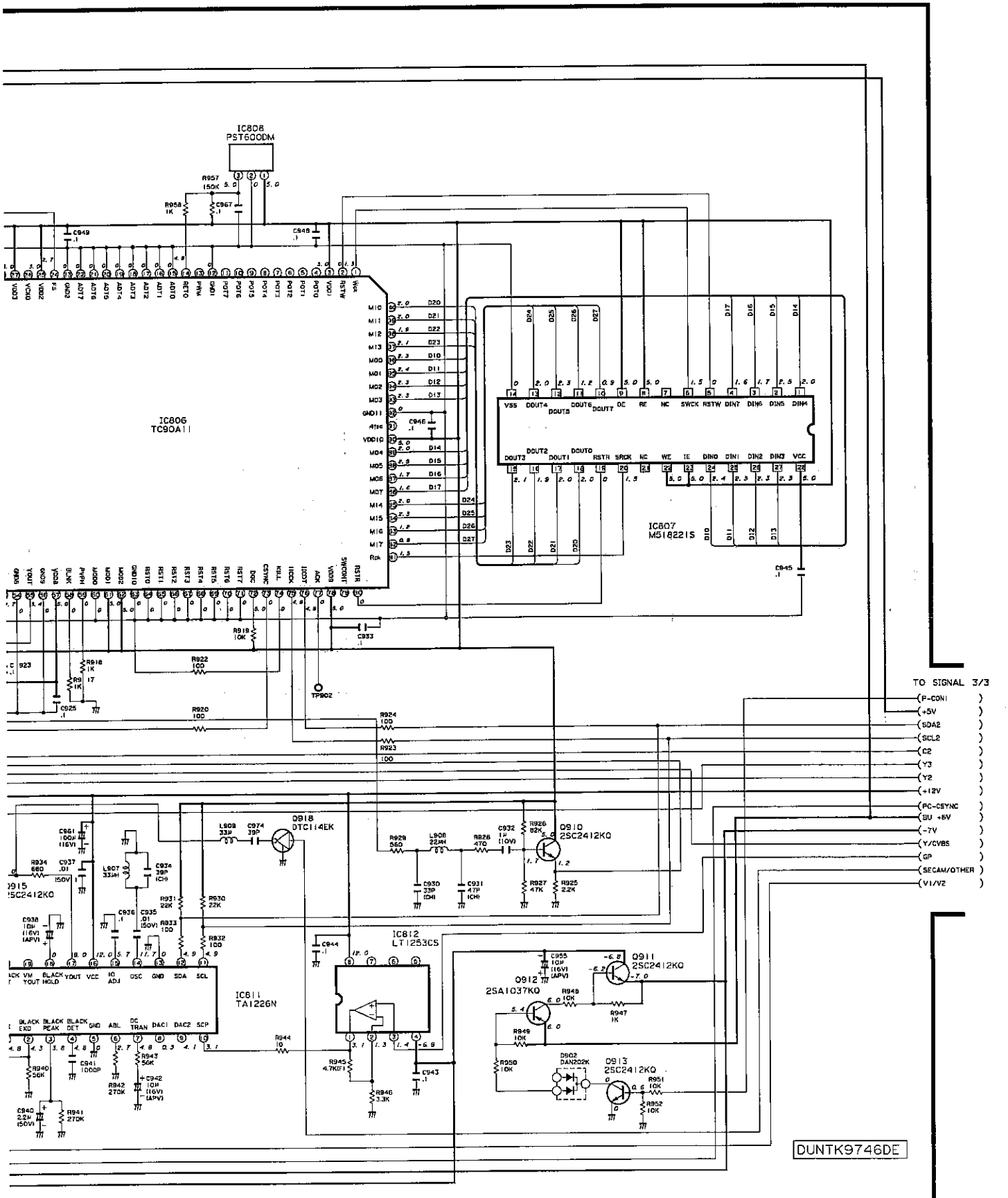




10	11	12	13	14	15	16	17	18	19

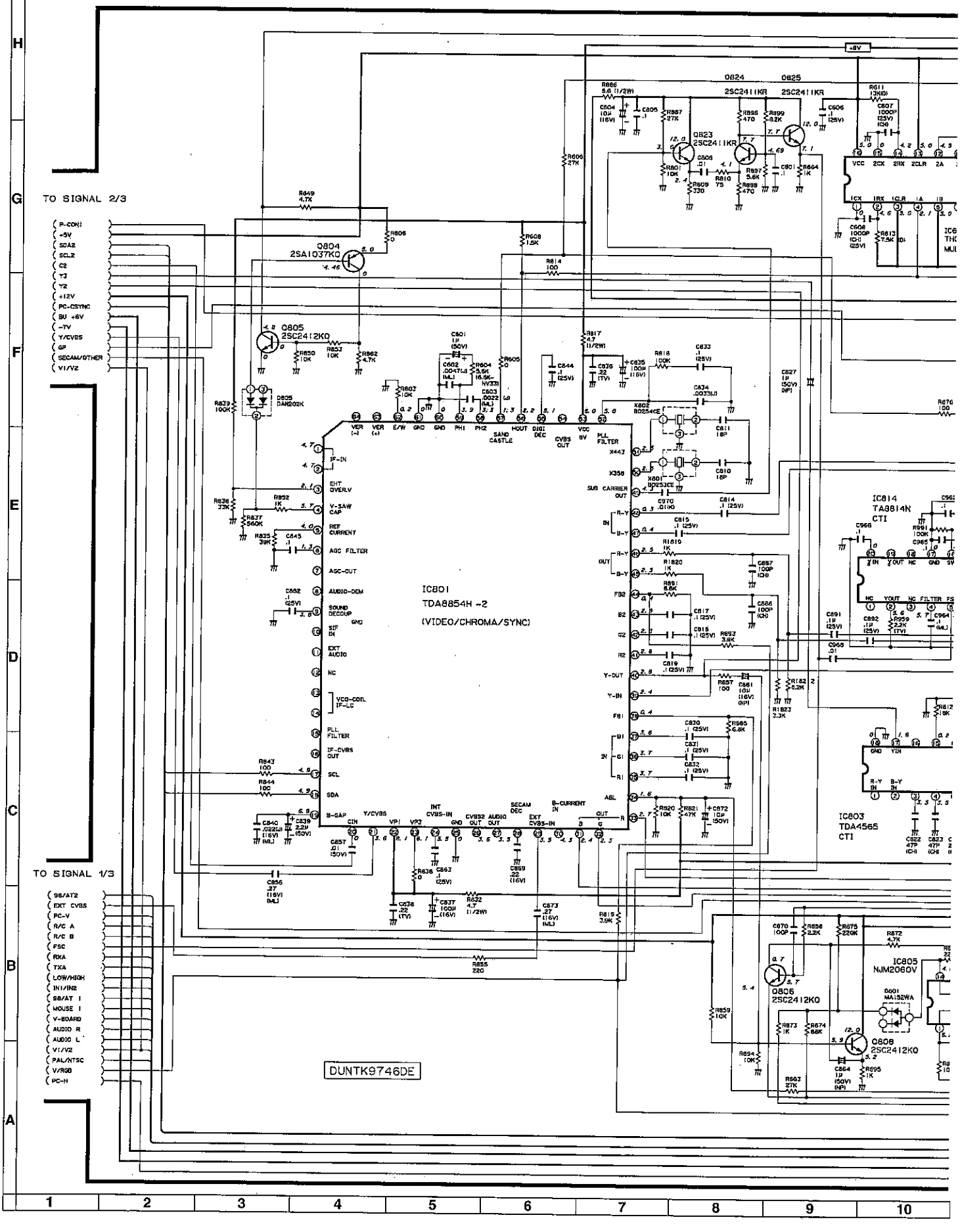
■ SIGNAL UNIT-2/3 / SIGNALEINHEIT-2/3 信号电路装置-2/3

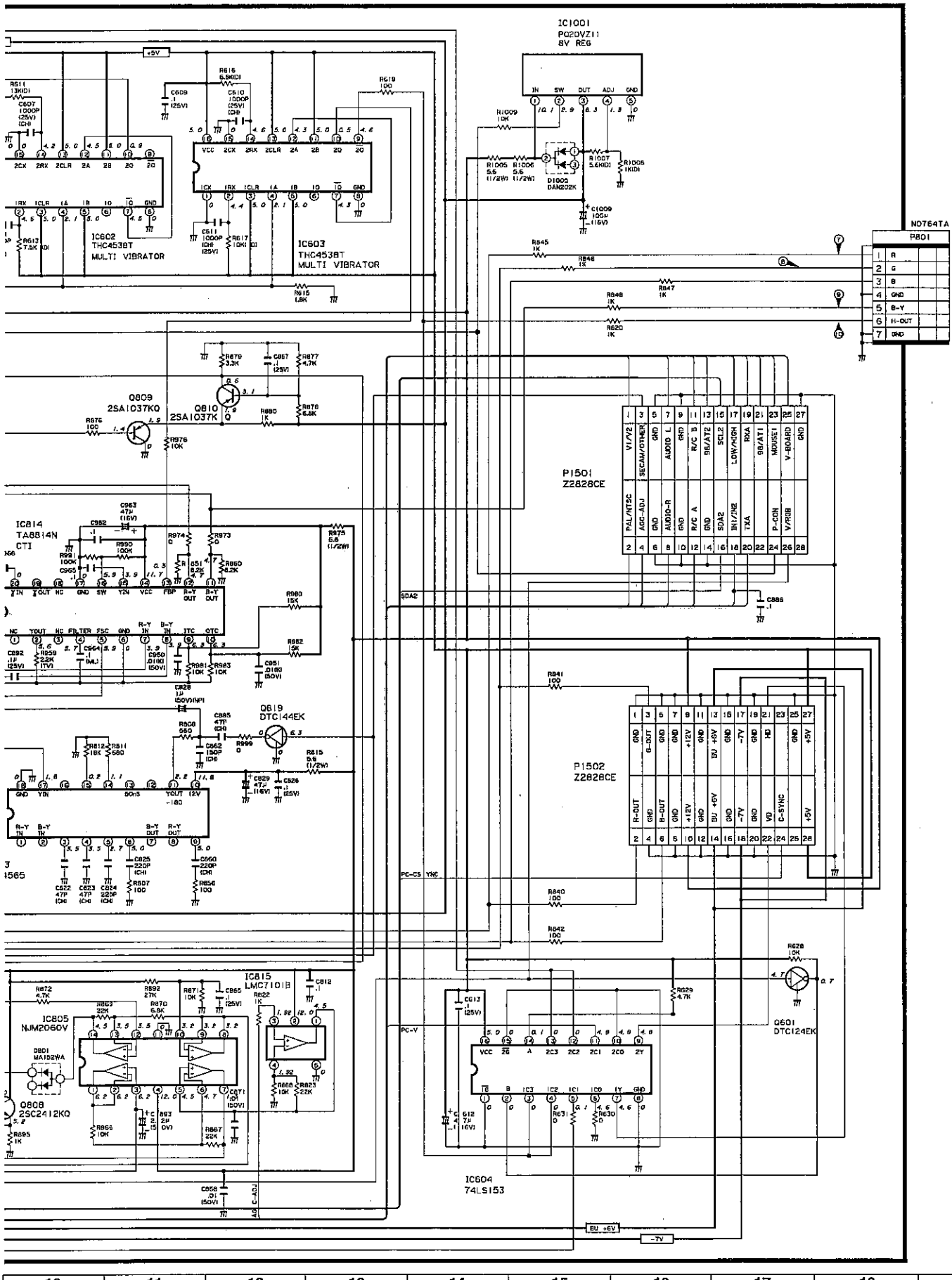




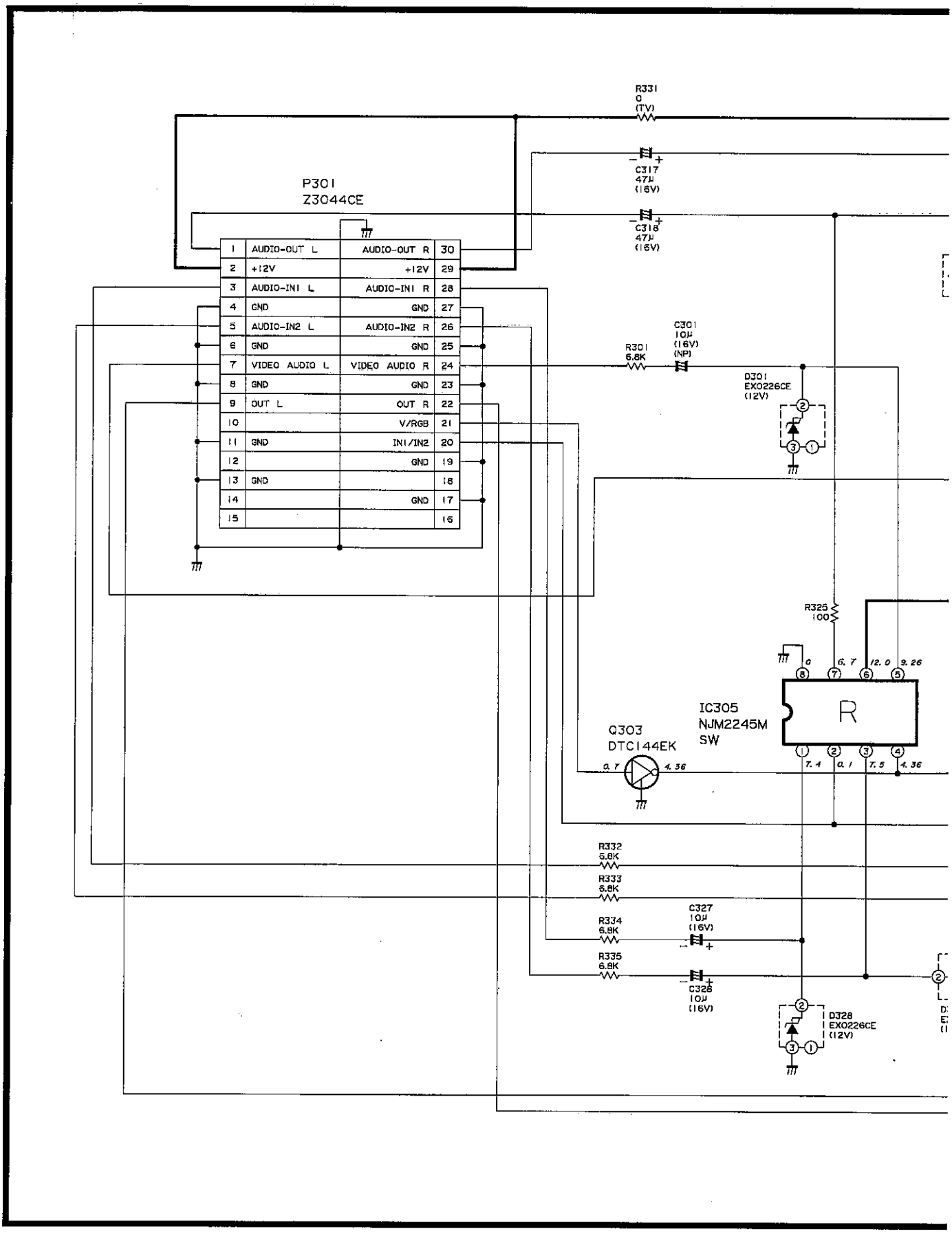
10	11	12	13	14	15	16	17	18	19

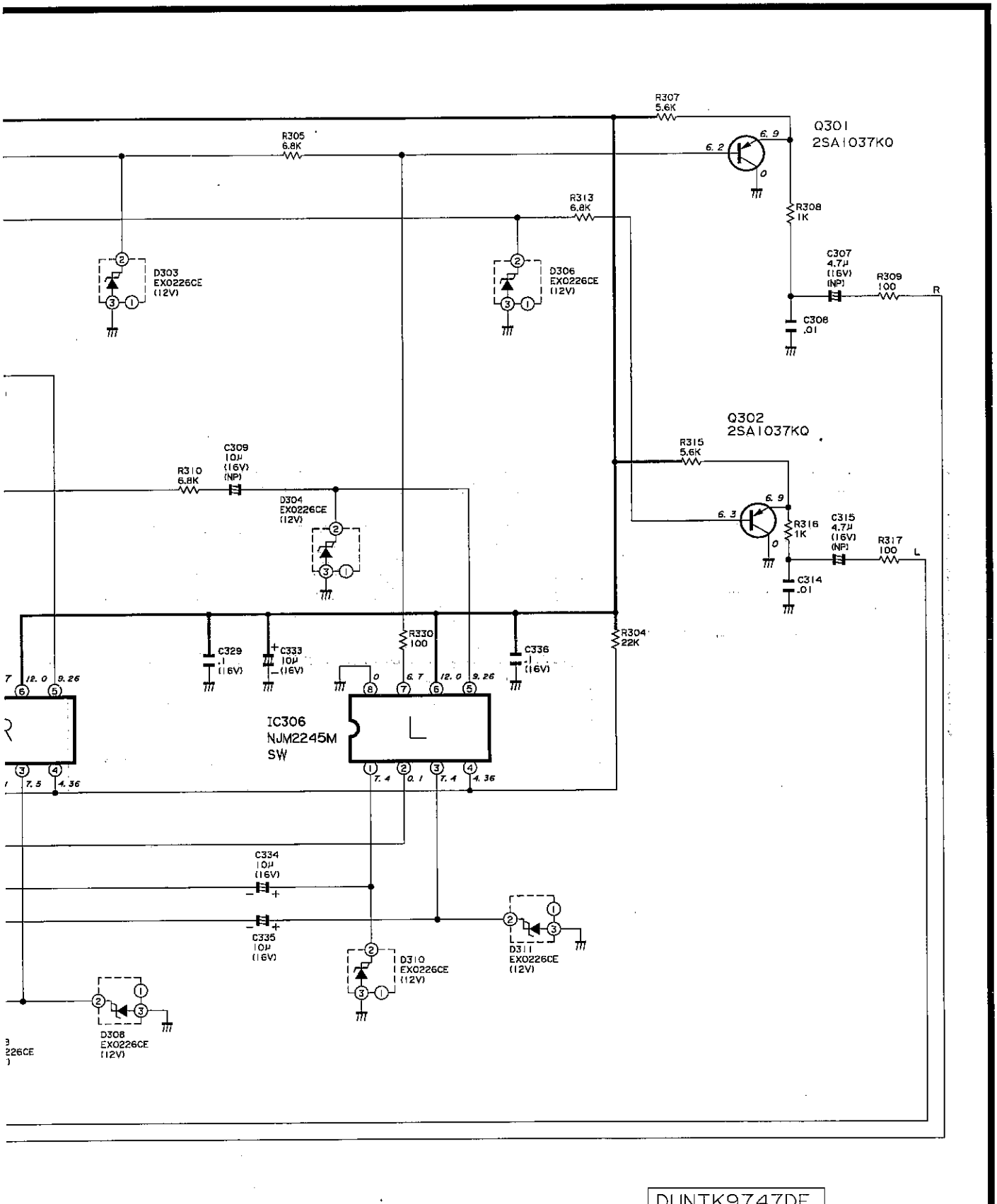
■ SIGNAL UNIT-3/3 / SIGNALEINHEIT-3/3 信号电路装置-3/3




IC1001
PQ2DVZ11
5V REG
IC1602
THC4538T
MULTI VIBRATOR
IC1603
THC4538T
MULTI VIBRATOR
NO764TA
P801
P1501
Z2828CE
P1502
Z2828CE
IC814
TA8814N
CTI
IC815
LMC7101B
IC805
NJM2060V
IC604
74LS153
Q809
2SA1037KQ
Q810
2SA1037KQ
Q819
DTC144EK
Q808
2SC2412KQ
Q601
DTC124EK
D801
MA152WA
D1005
DAN202K
SDA2
PC-CS
PC-SYNC
PC-V
+5V
BU +5V
-7V

■ SIGNAL SUB UNIT / SIGNAL-NEBENEINHEIT 信号电路辅助装置

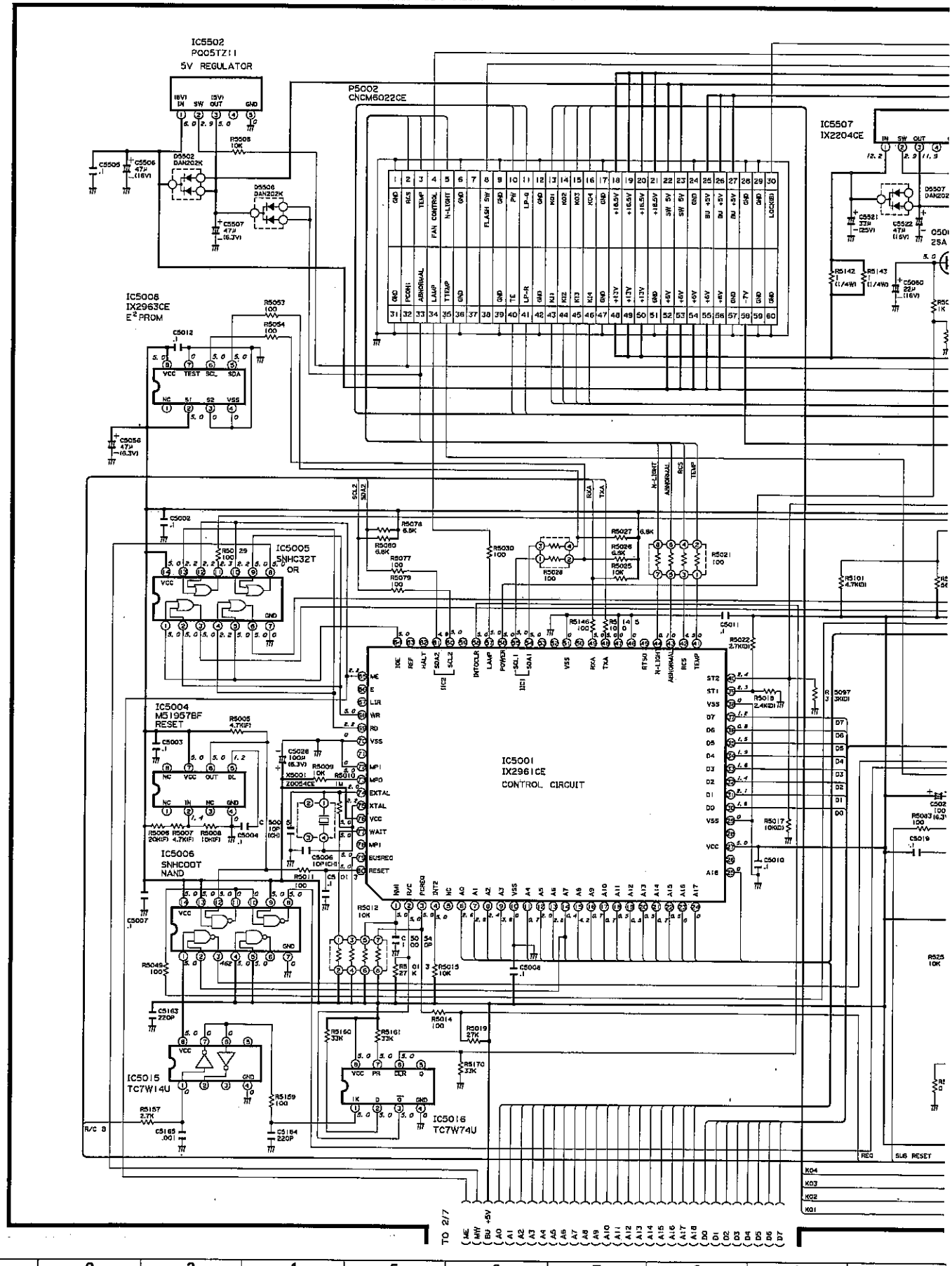


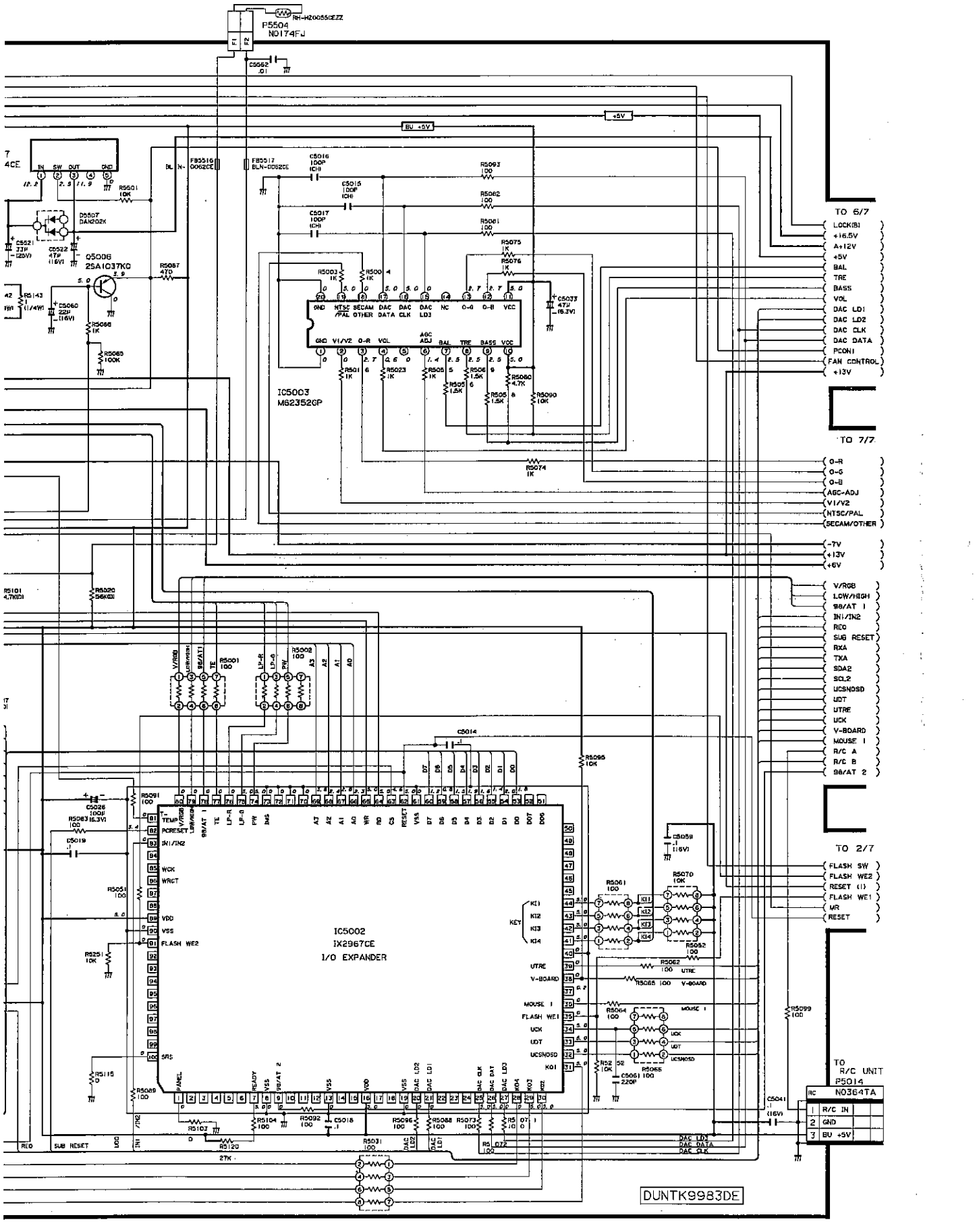


DUNTK9747DE

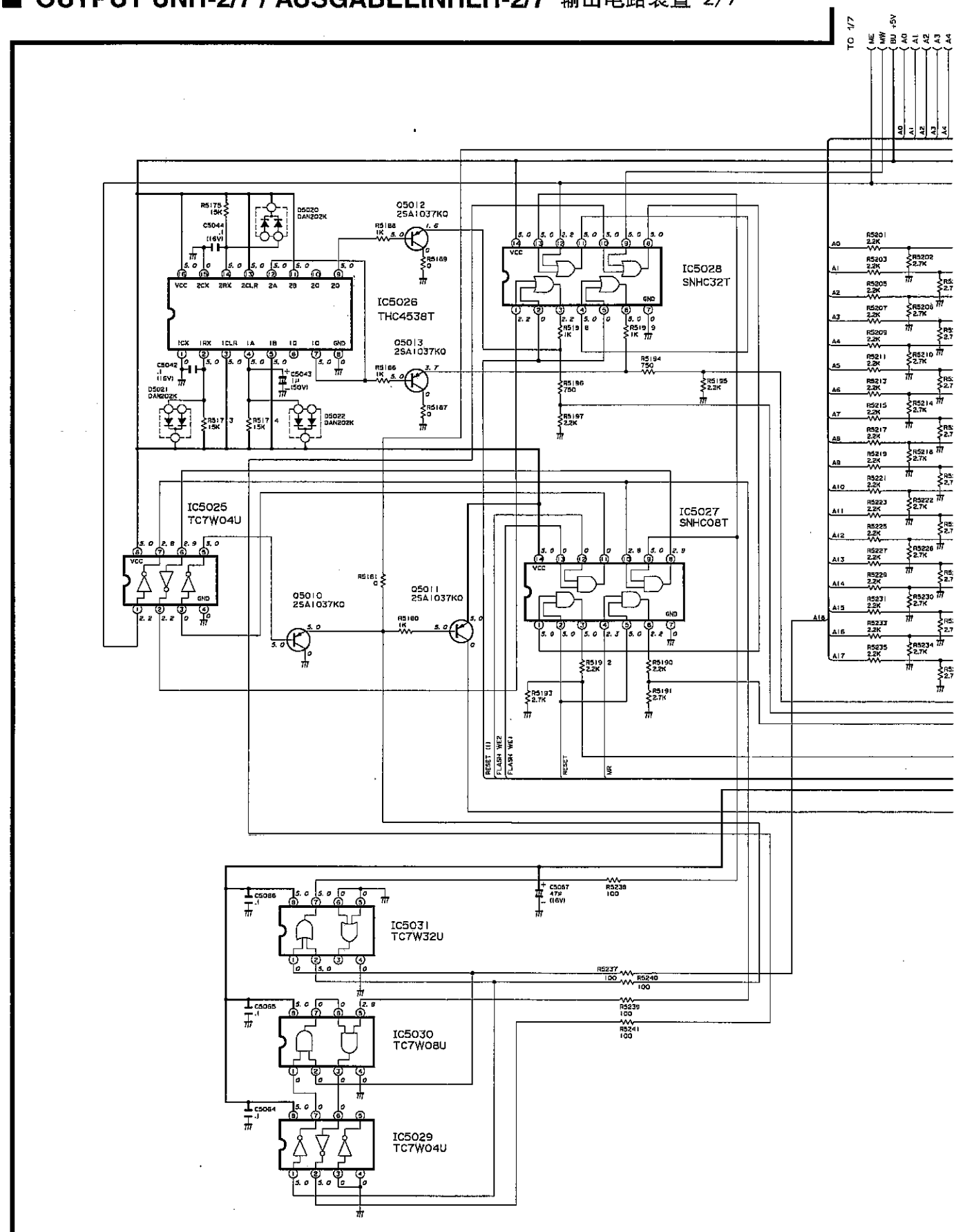
10	11	12	13	14	15	16	17	18	19

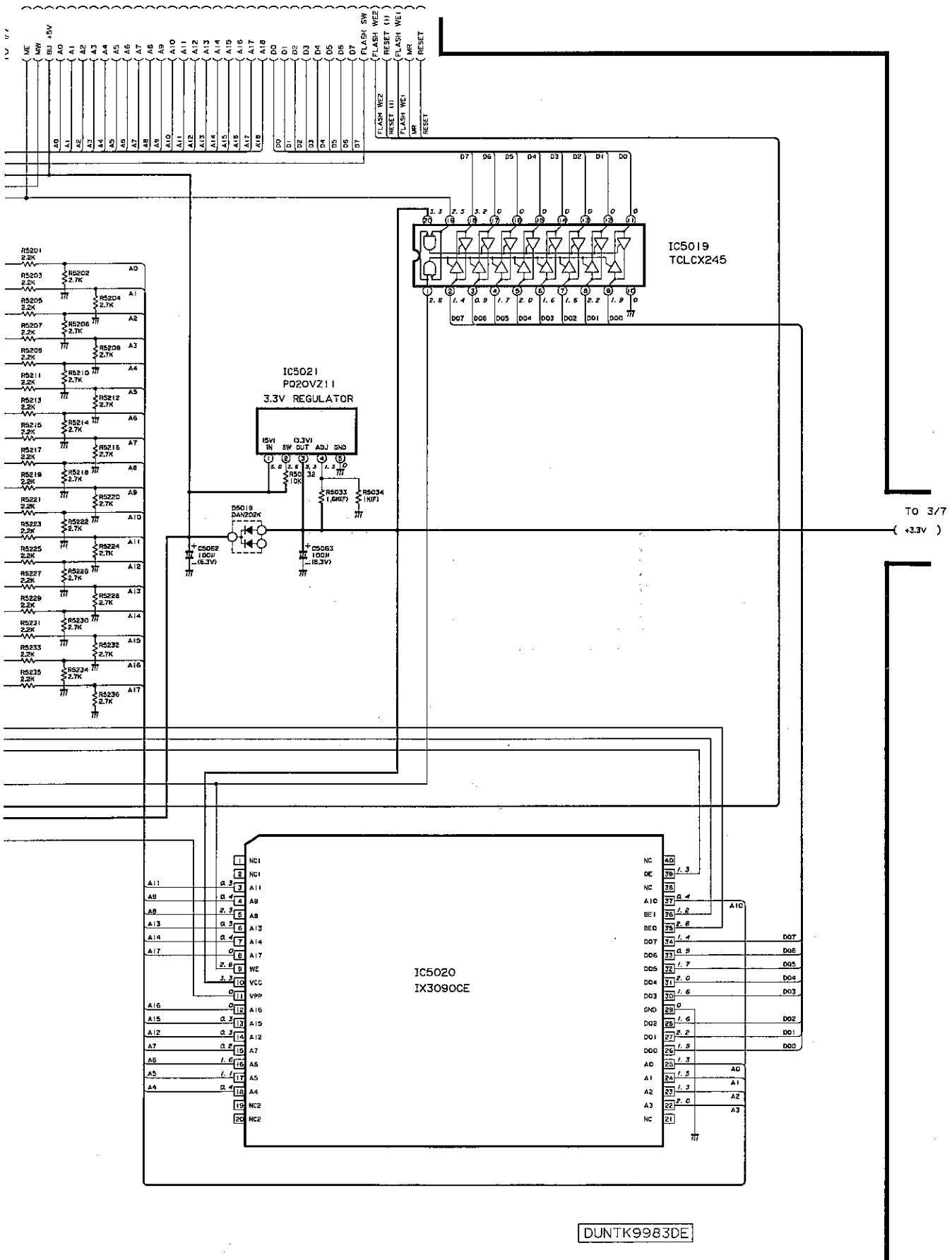
■ OUTPUT UNIT-1/7 / AUSGABEEINHEIT-1/7 输出电路装置-1/7




P5504
N0174FJ
IC5003
M62352GP
IC5002
IX2967CE
I/O EXPANDER
Q5006
2SA1037KQ
TO 6/7
TO 7/7
TO 2/7
TO
R/C UNIT
P5014
R/C IN
GND
BU +5V
DUNTK9983DE

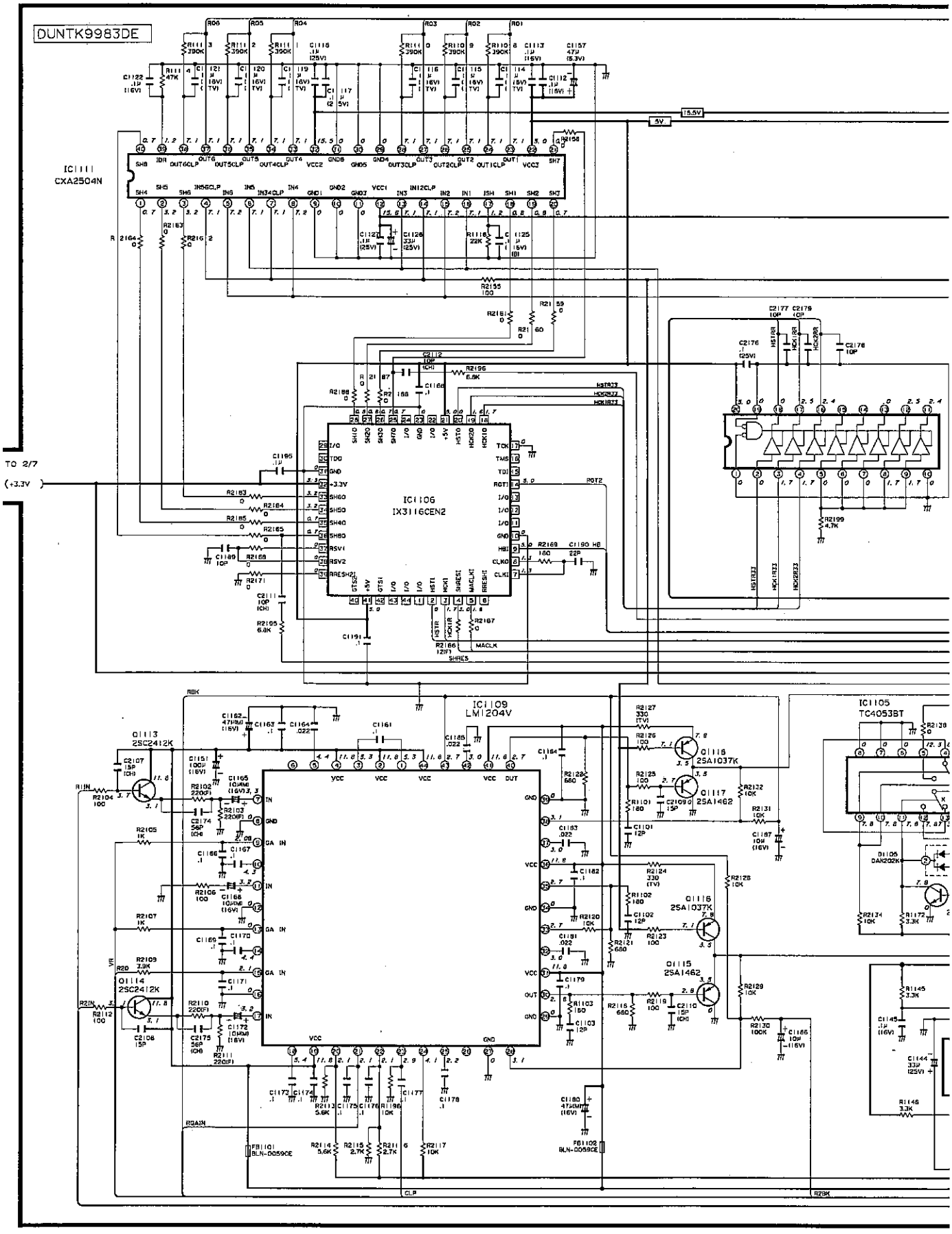
■ OUTPUT UNIT-2/7 / AUSGABEEINHEIT-2/7 输出电路装置-2/7

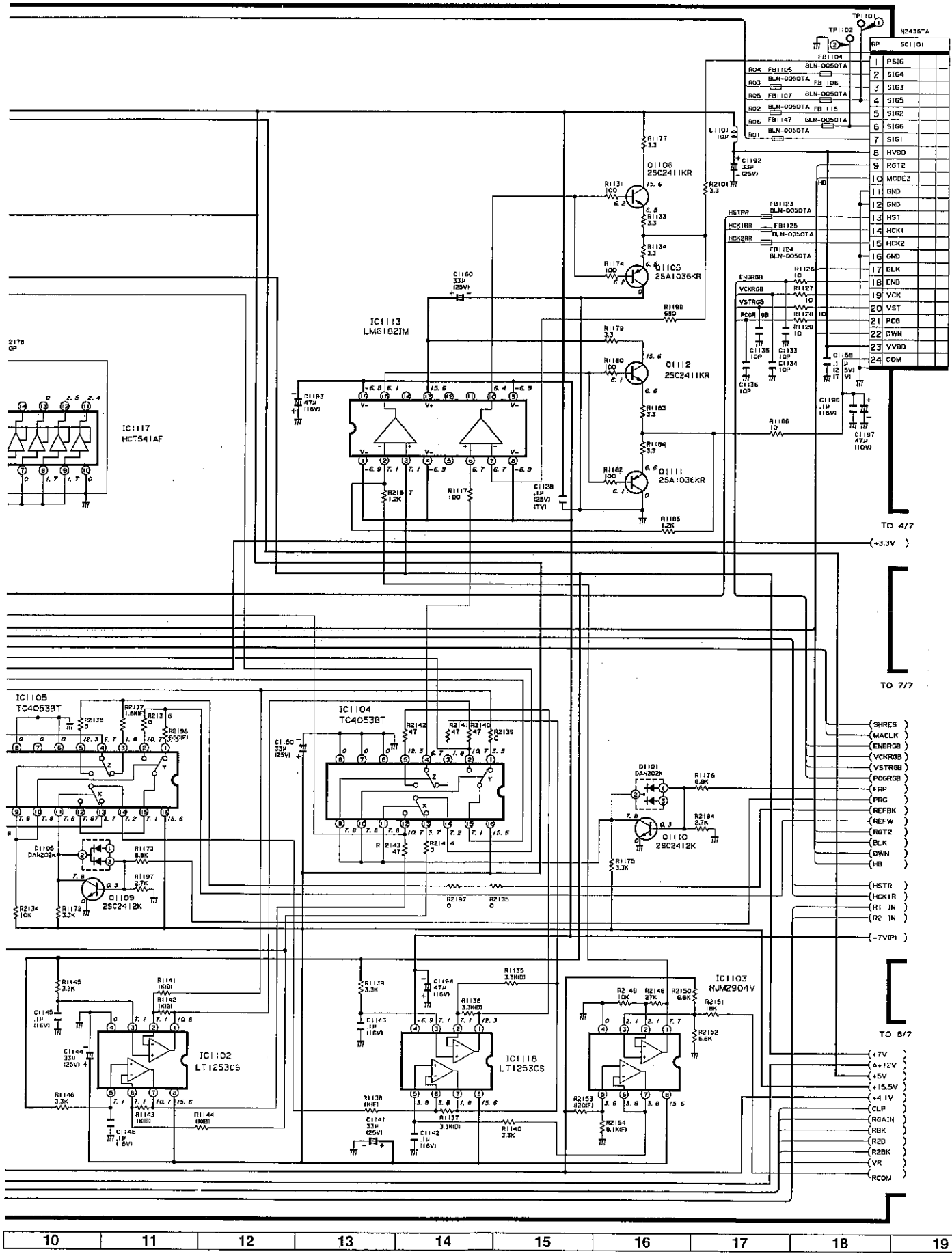




10	11	12	13	14	15	16	17	18	19

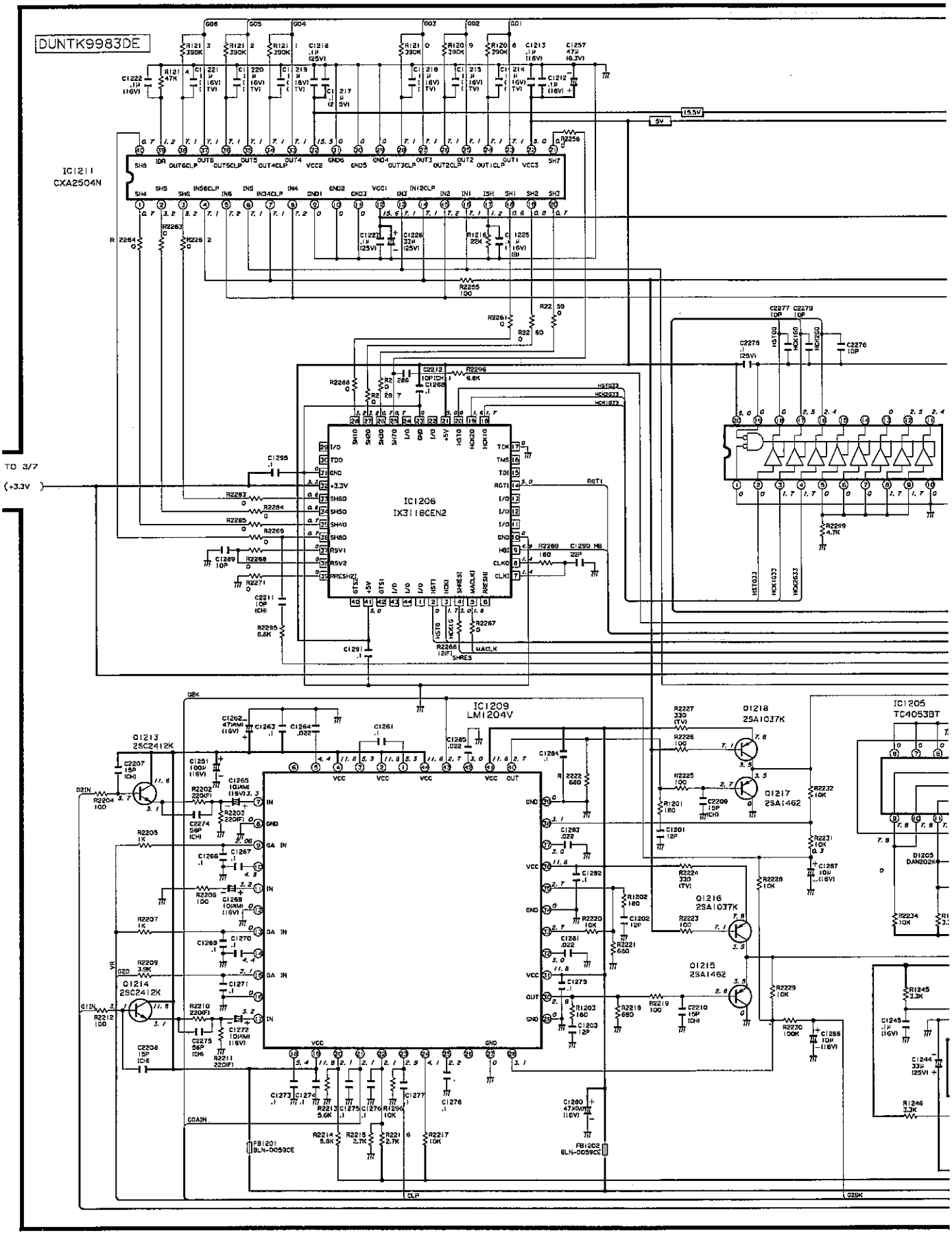
■ OUTPUT UNIT-3/7 / AUSGABEEINHEIT-3/7 输出电路装置-3/7

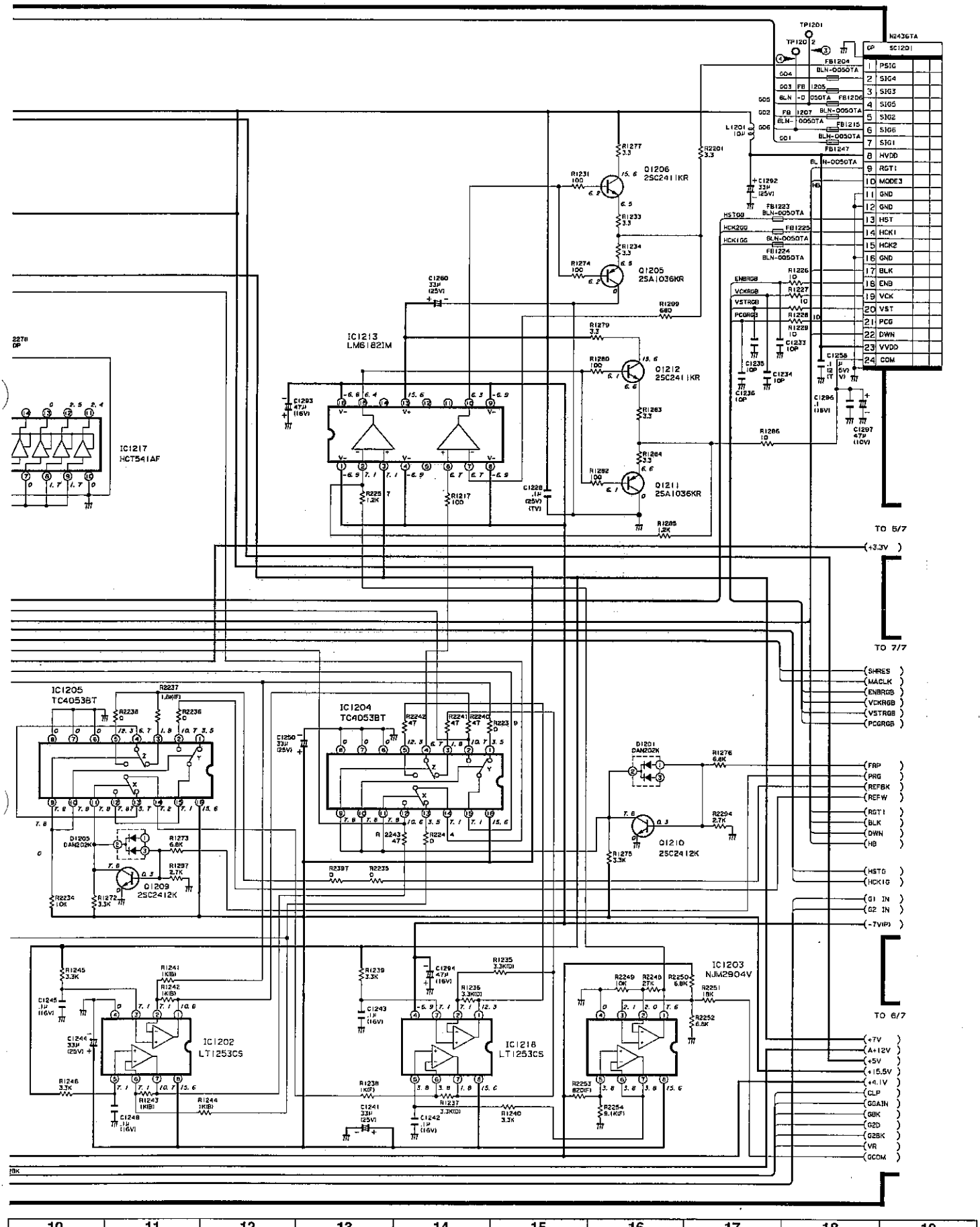




10	11	12	13	14	15	16	17	18	19

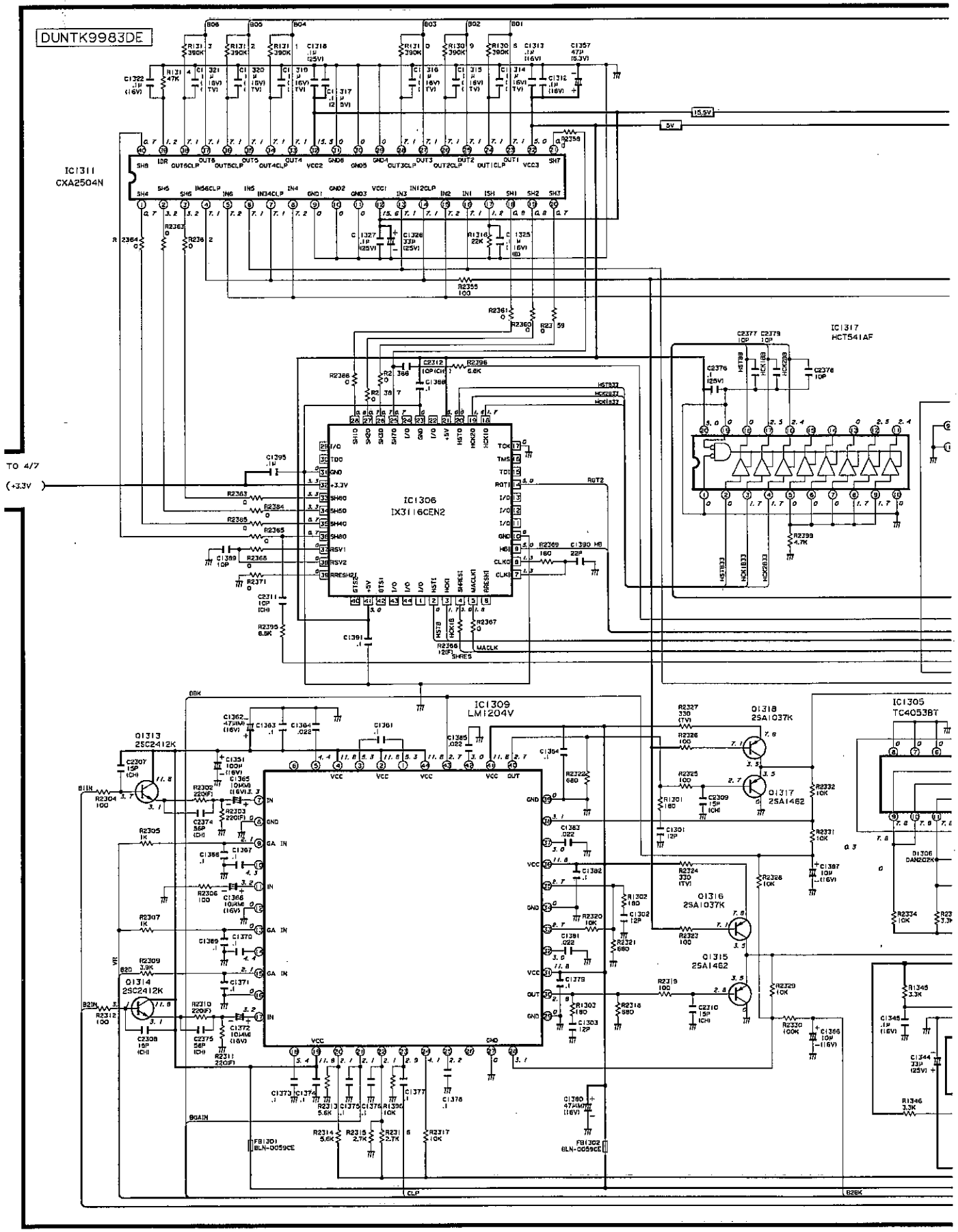
■ OUTPUT UNIT-4/7 / AUSGABEEINHEIT-4/7 输出电路装置-4/7

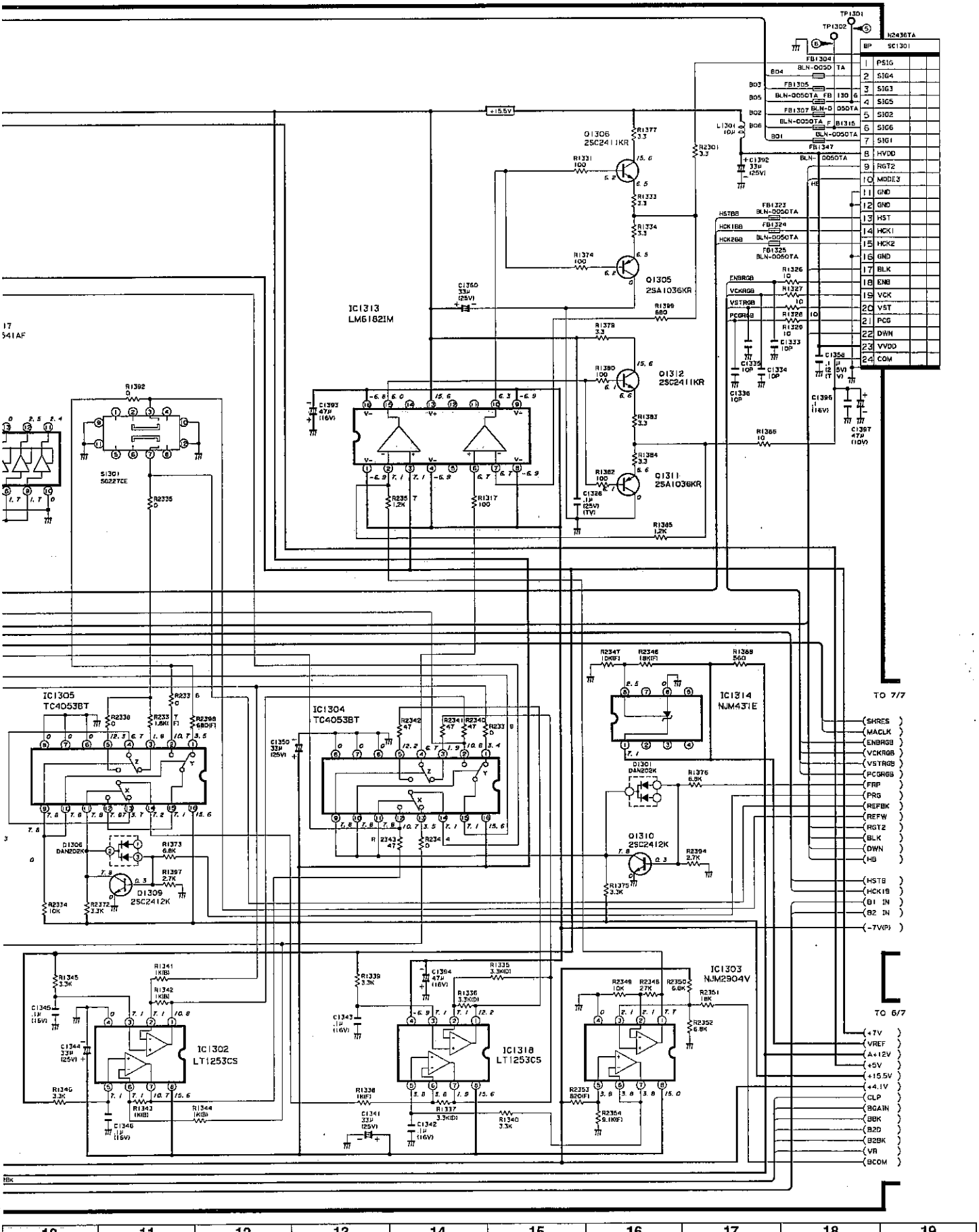




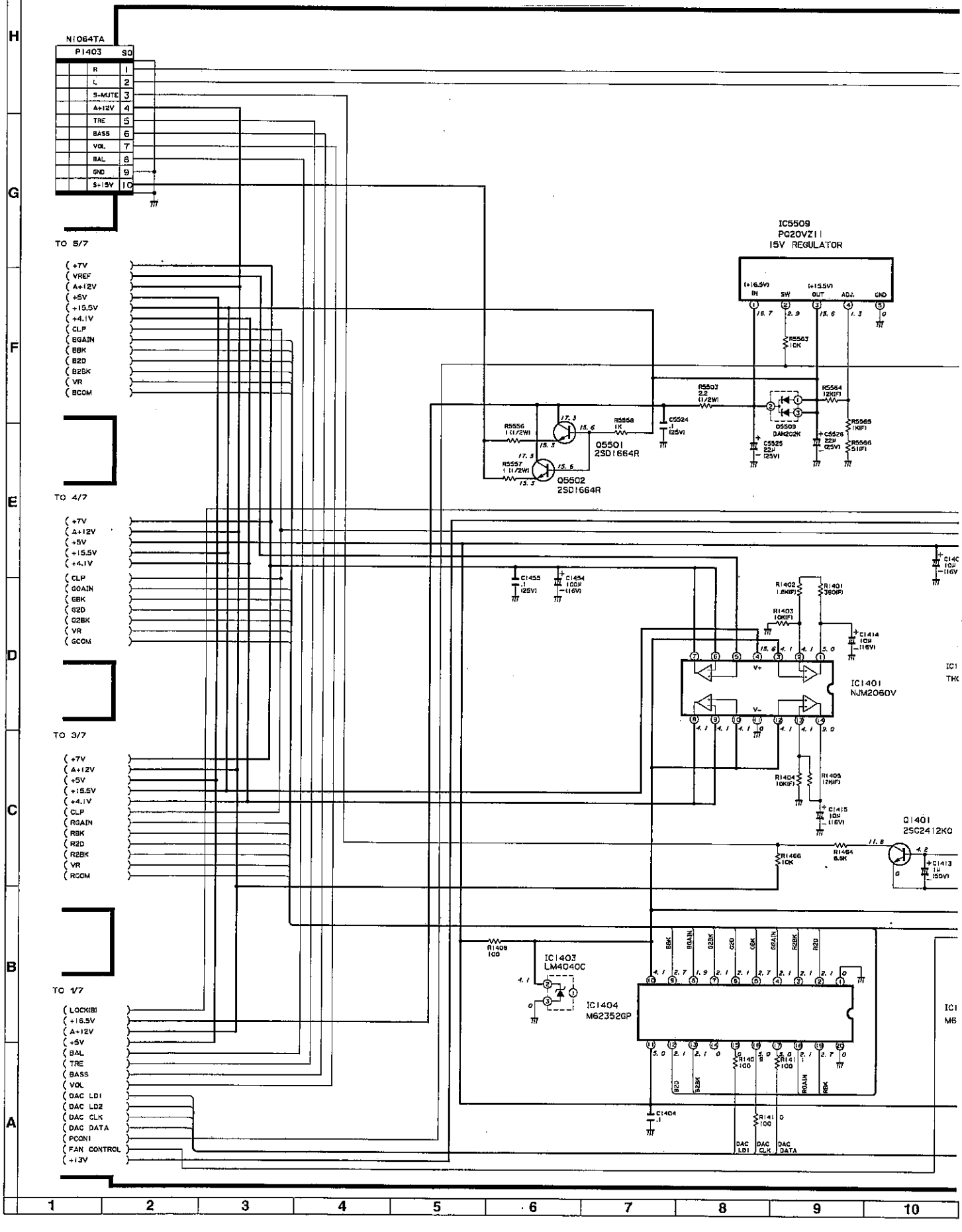
10	11	12	13	14	15	16	17	18	19

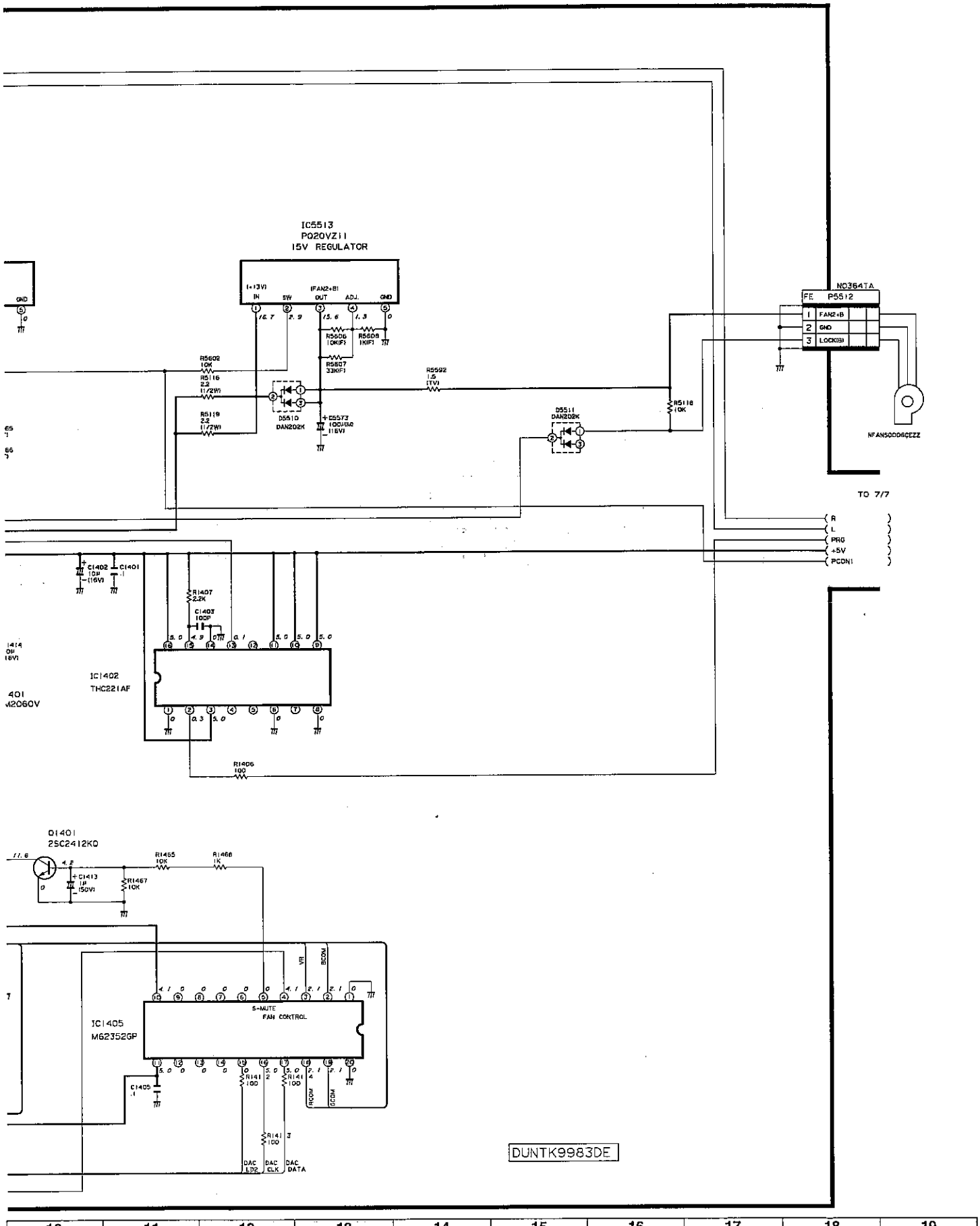
■ OUTPUT UNIT-5/7 / AUSGABEEINHEIT-5/7 输出电路装置-5/7




IC1313
LM6182IM
Q1306
2SC2411KR
Q1305
2SA1036KR
Q1312
2SC2411KR
Q1311
2SA1036KR
IC1305
TC4053BT
IC1304
TC4053BT
IC1314
NJM4311E
Q1310
2SC2412K
Q1309
2SC2412K
IC1302
LT1253CS
IC1318
LT1253CS
IC1303
NJM2904V
TO 7/7
TO 6/7
SHRES
MACLK
ENBRGB
VCKRGB
VSTRGB
PCGRGB
FRP
PRG
REFBK
REFW
RGT2
BLK
DWN
HB
HSTB
HCK1B
B1 IN
B2 IN
-7V(P)
+7V
VREF
A+12V
+5V
+15.5V
+4.1V
CLP
BGAIN
BBK
B2D
B2BK
VR
BCOM

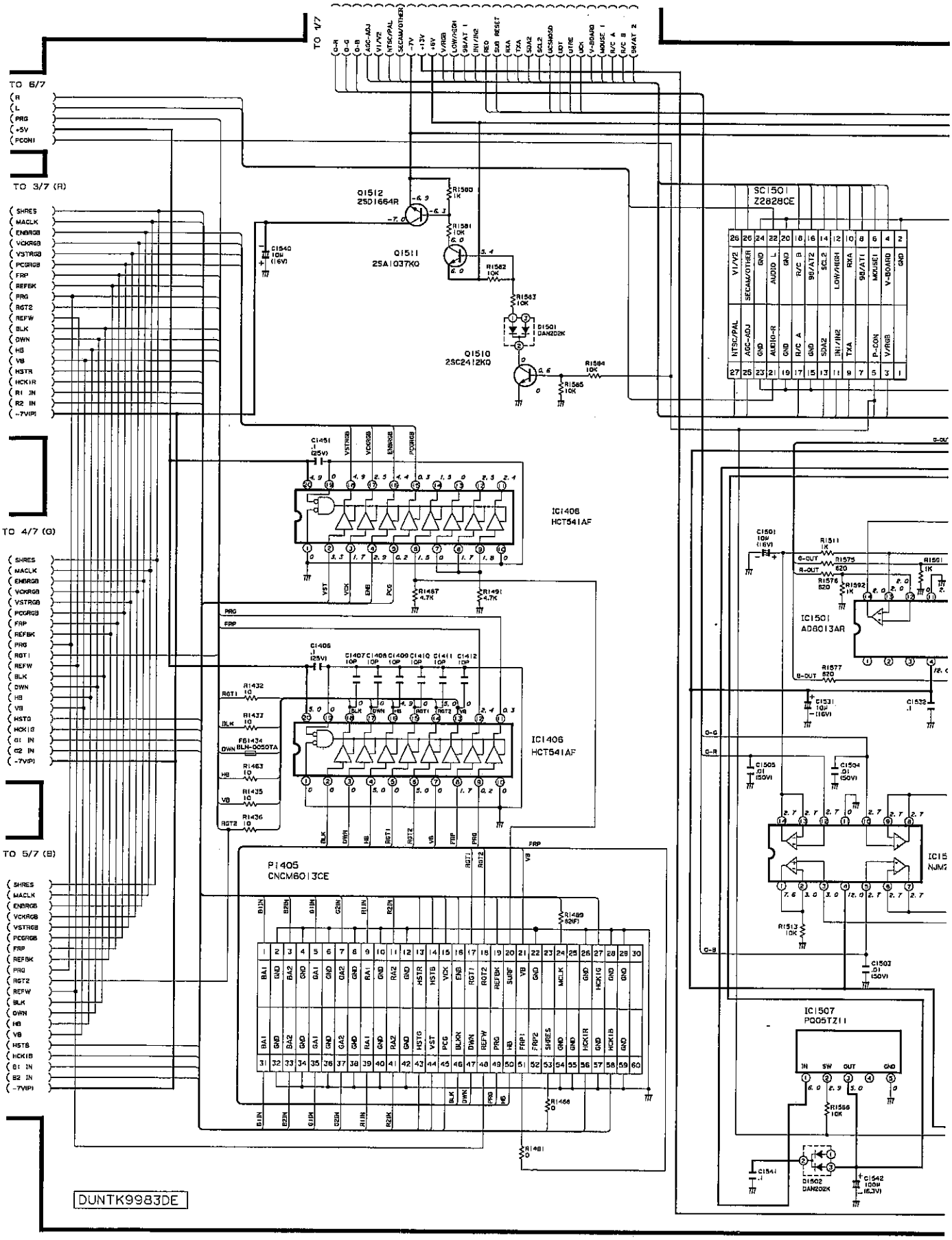
■ OUTPUT UNIT-6/7 / AUSGABEEINHEIT-6/7 输出电路装置-6/7

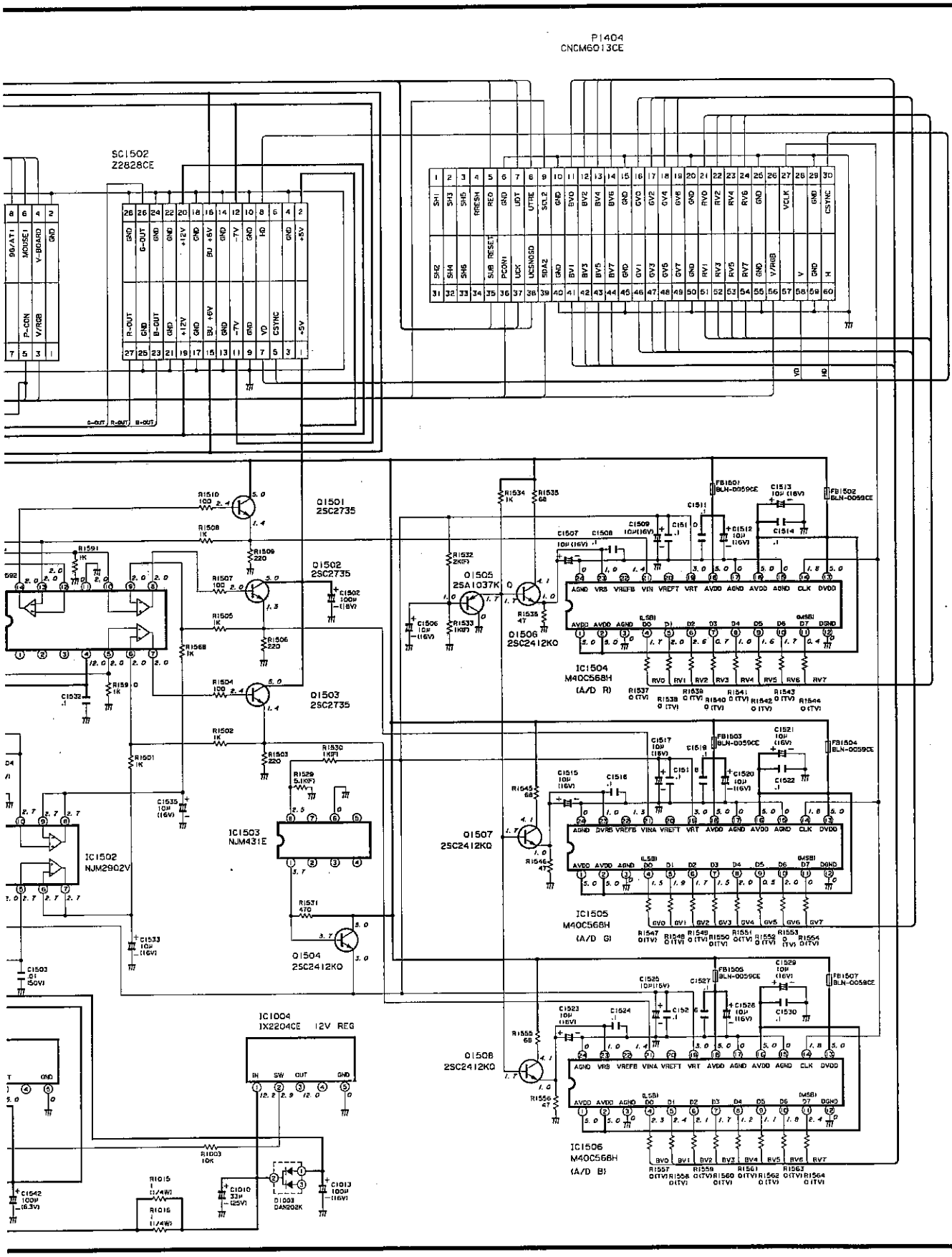




10	11	12	13	14	15	16	17	18	19

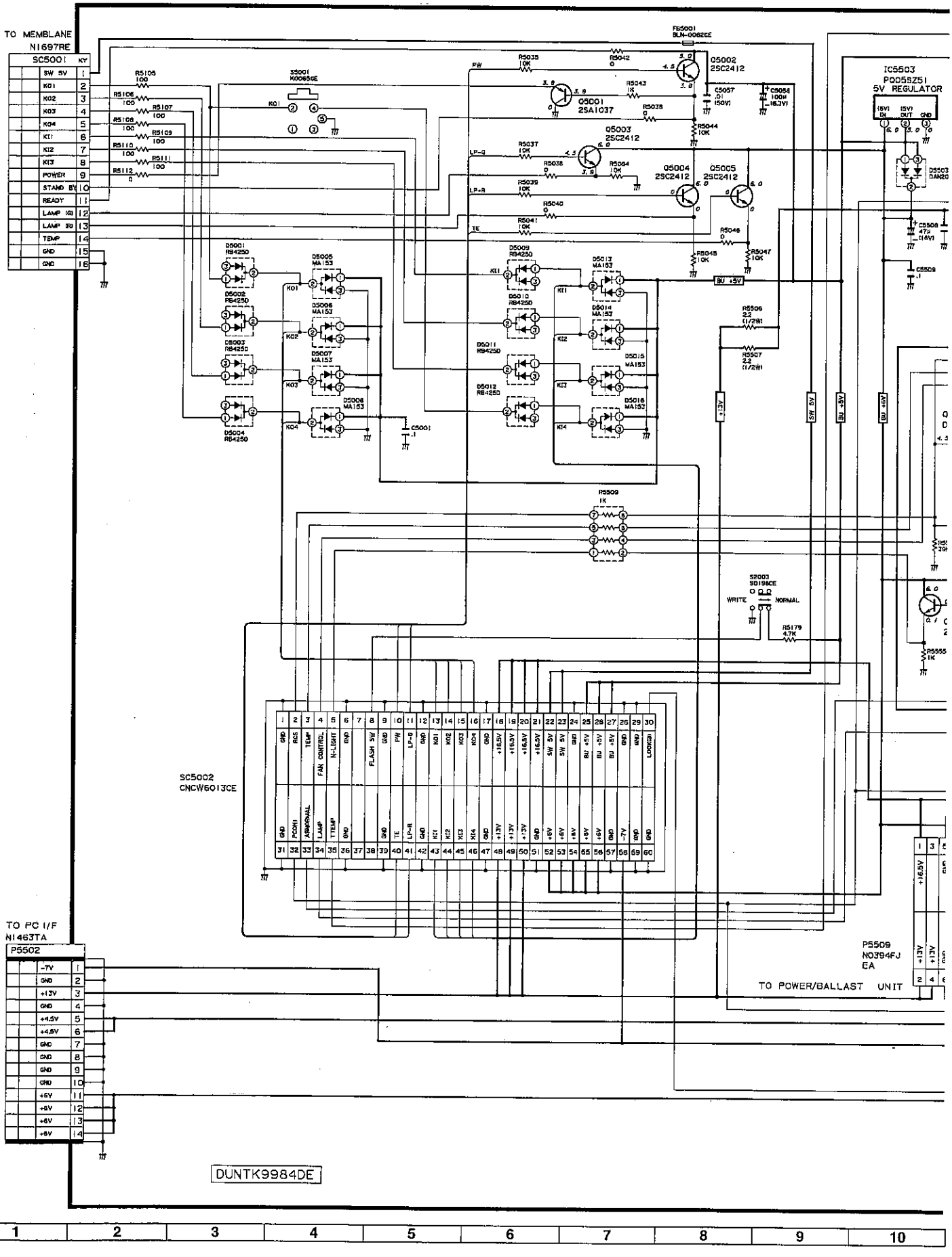
■ OUTPUT UNIT-7/7 / AUSGABEEINHEIT-7/7 输出电路装置-7/7

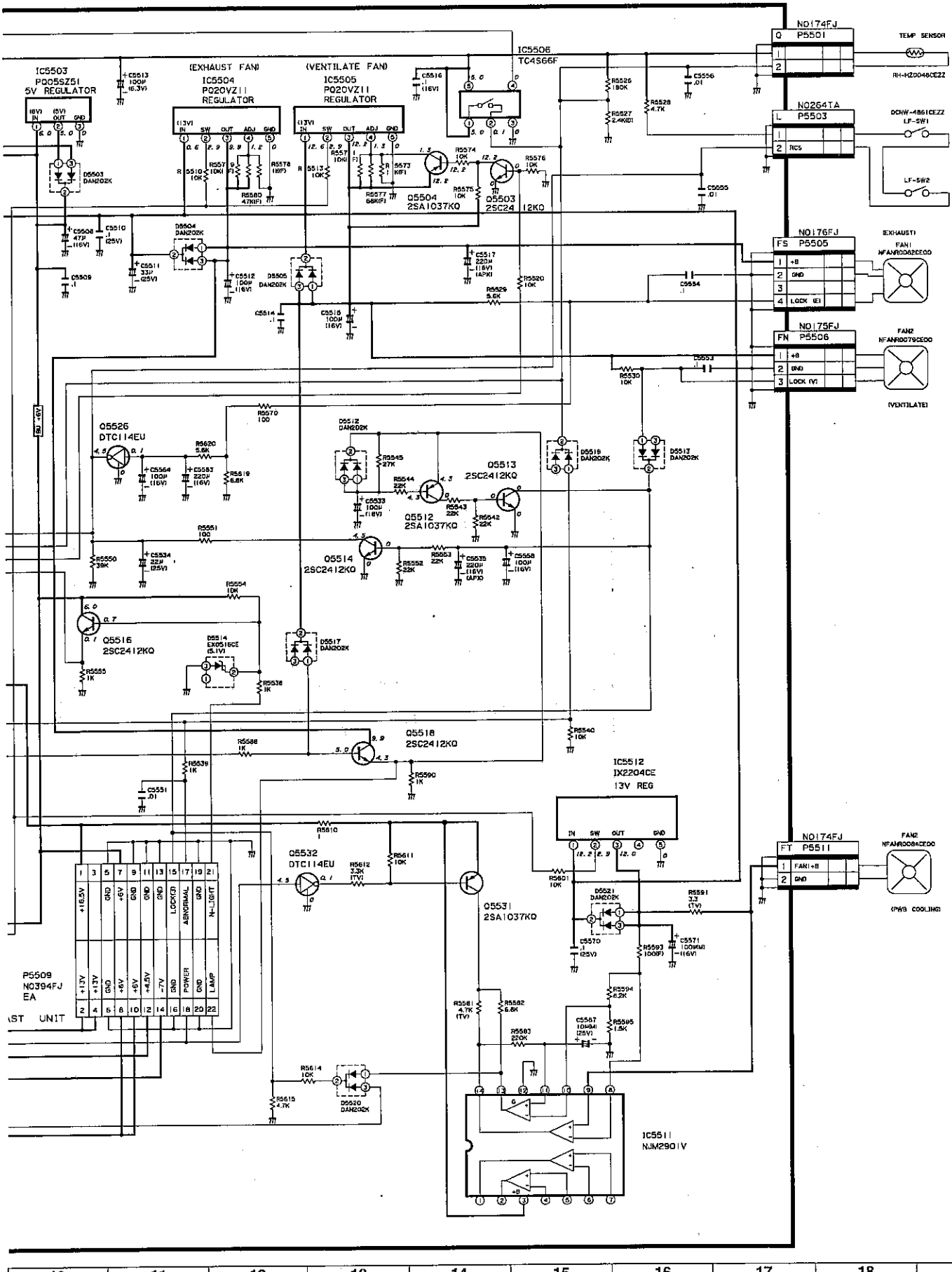




10	11	12	13	14	15	16	17	18	19

■ OUTPUT SUB UNIT / AUSGABE-NEBENEINHEIT 输出电路辅助装置

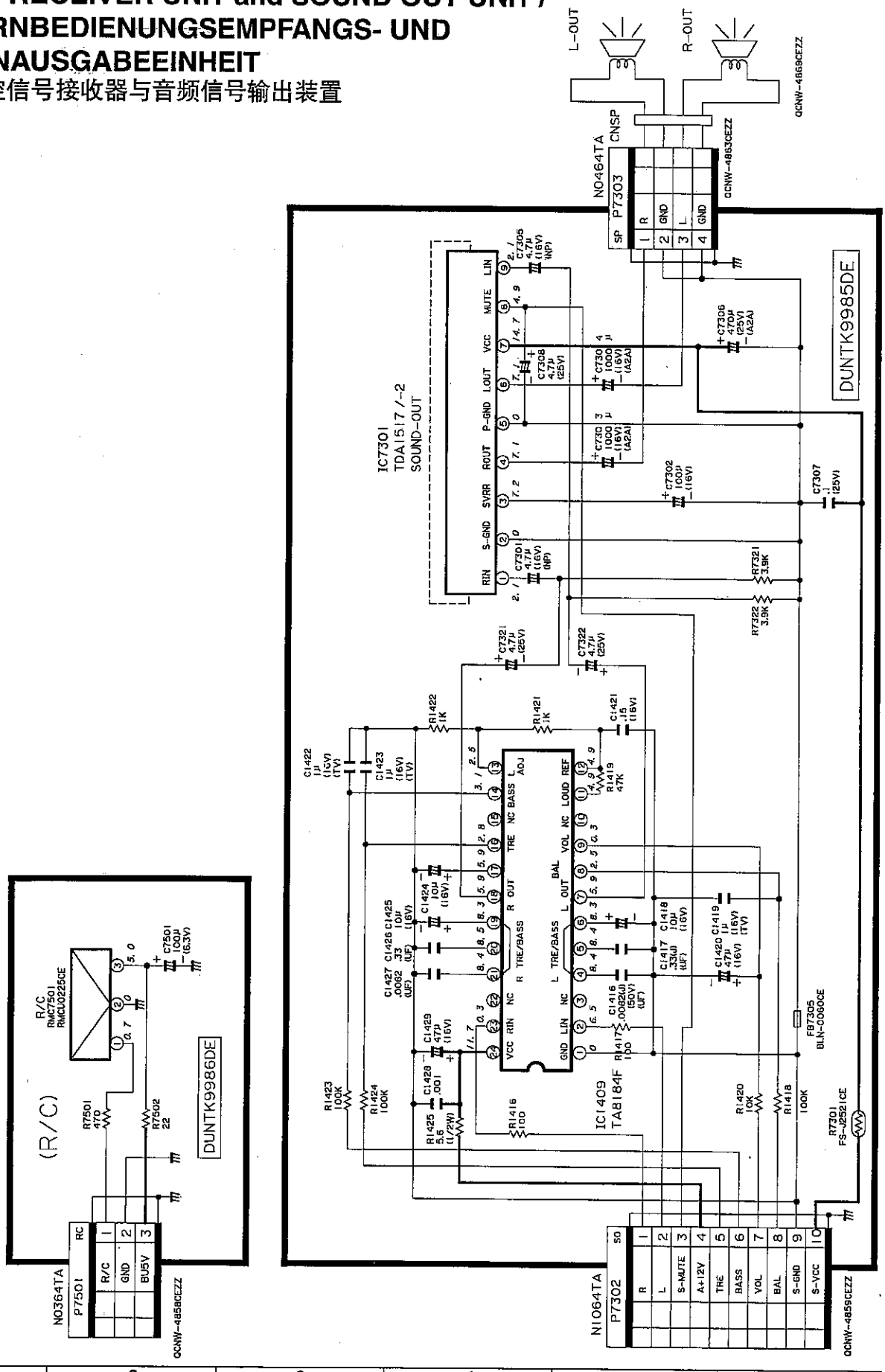




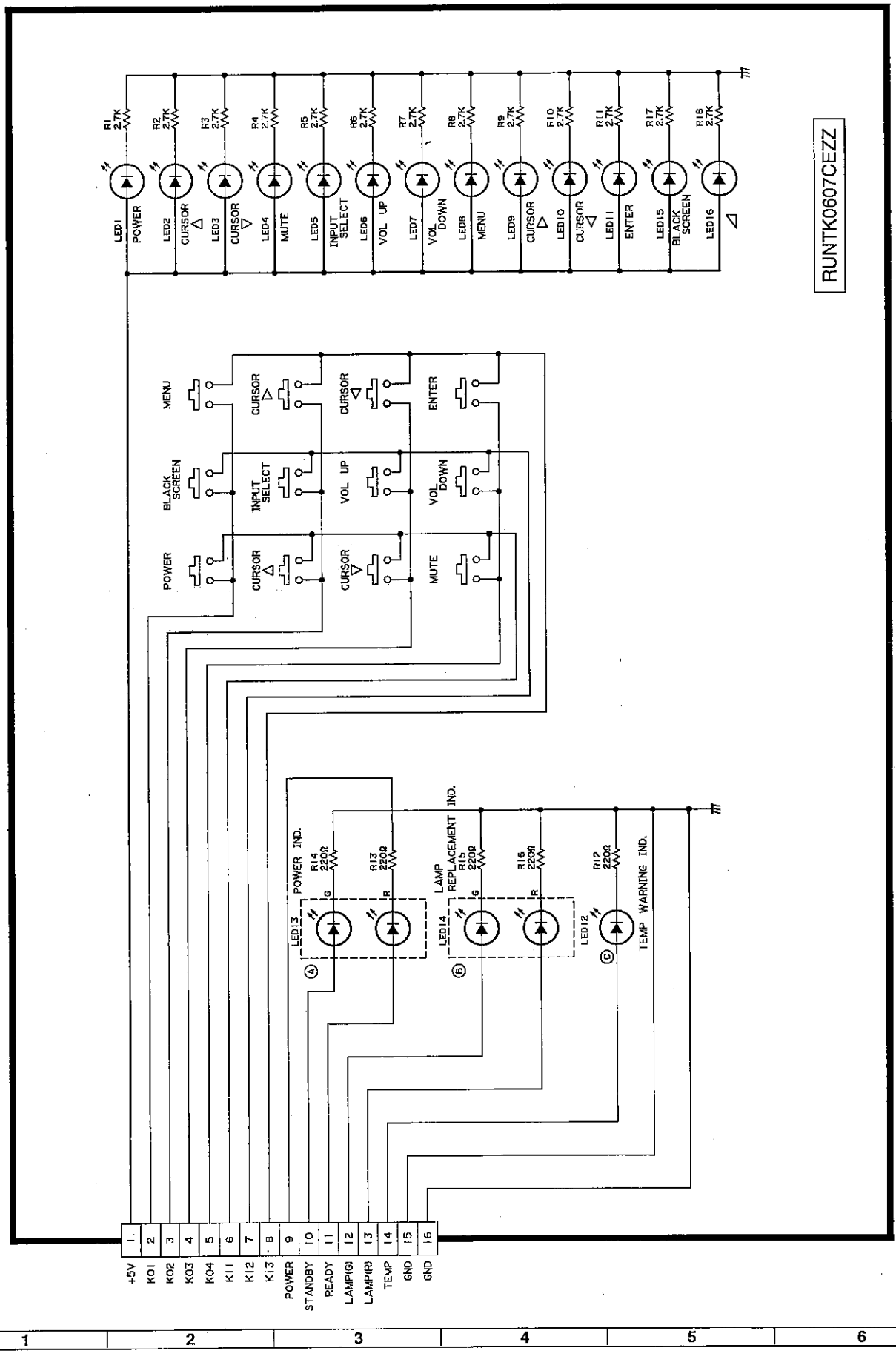
10	11	12	13	14	15	16	17	18	19

■ R/C RECEIVER UNIT and SOUND OUT UNIT / FERNBEDIENUNGSEMPFANGS- UND TONAUSGABEEINHEIT

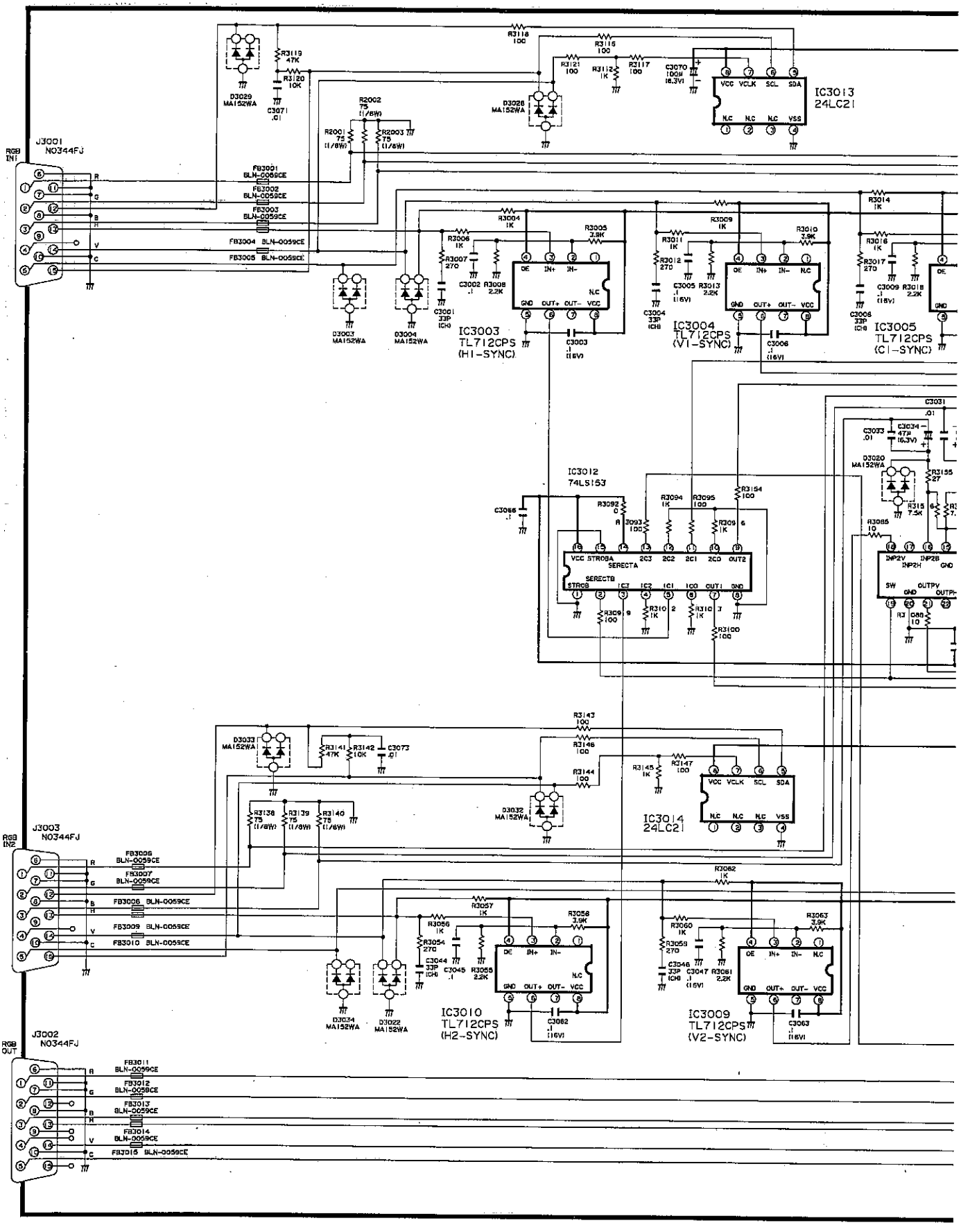
遥控信号接收器与音频信号输出装置

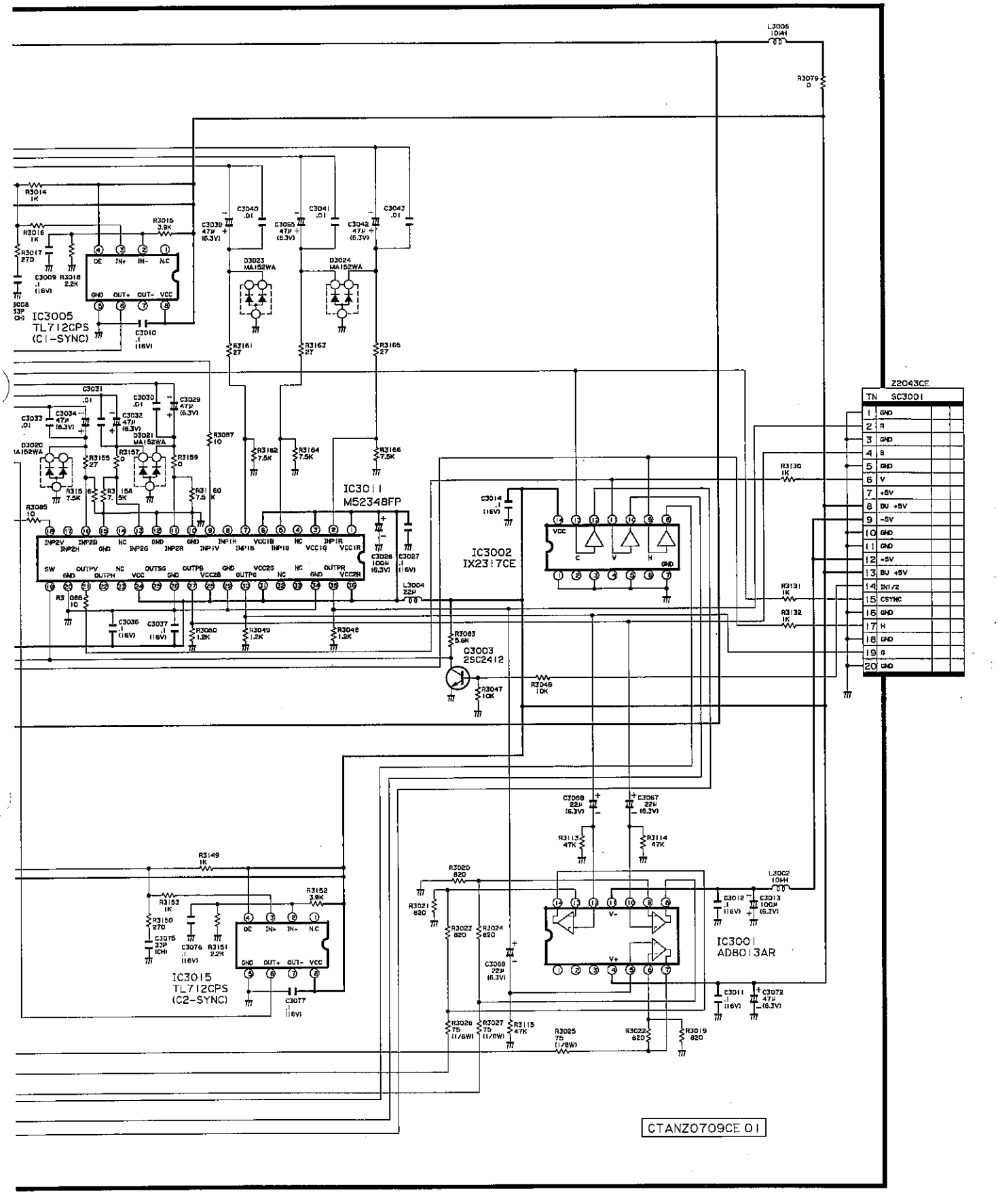


■ OPERATION KEY UNIT / BEDIENUNGSTASTENEINHEIT 操作键装置



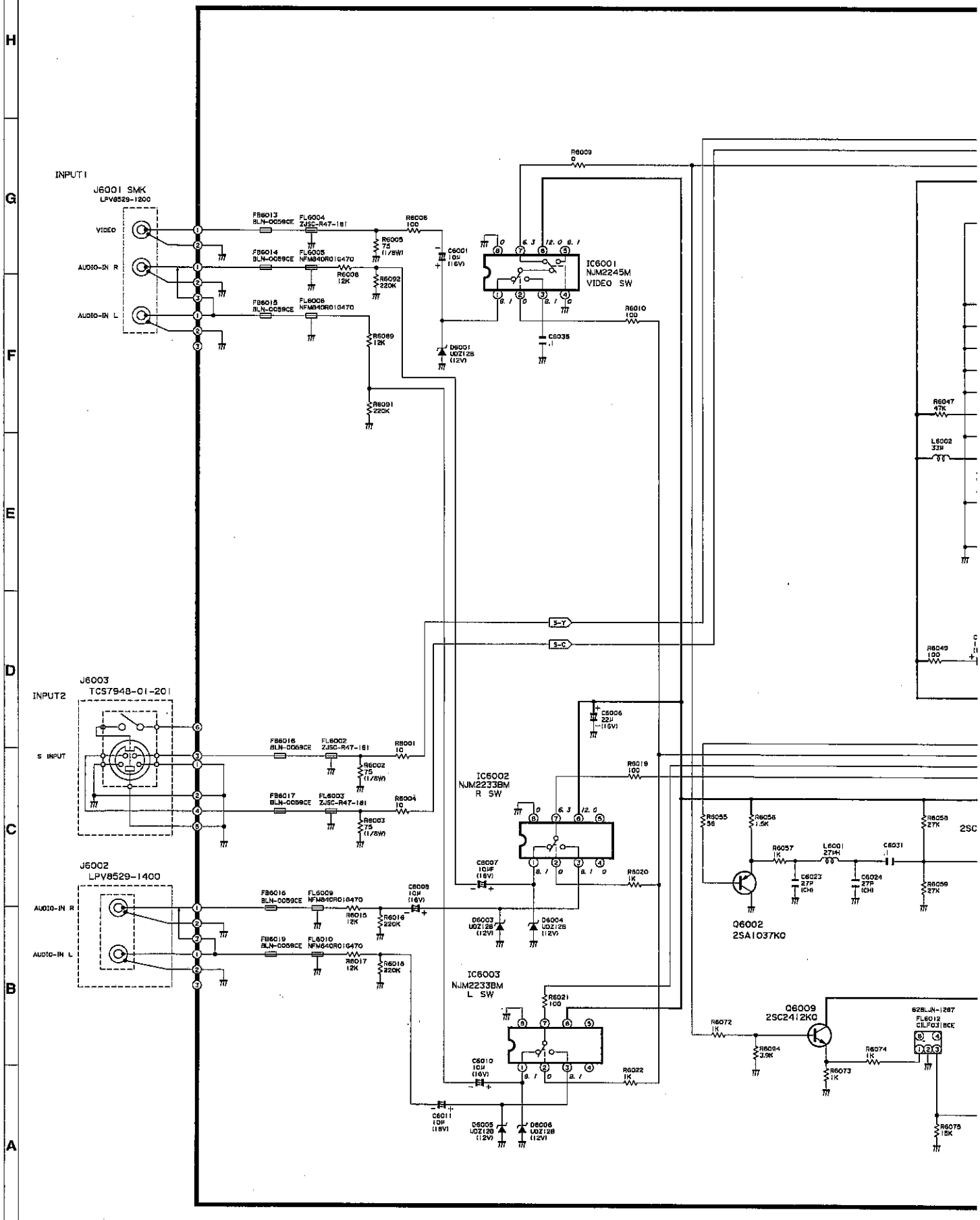
■ PC TERMINAL UNIT / PC-ANSCHLUßEINHEIT PC插接电路装置

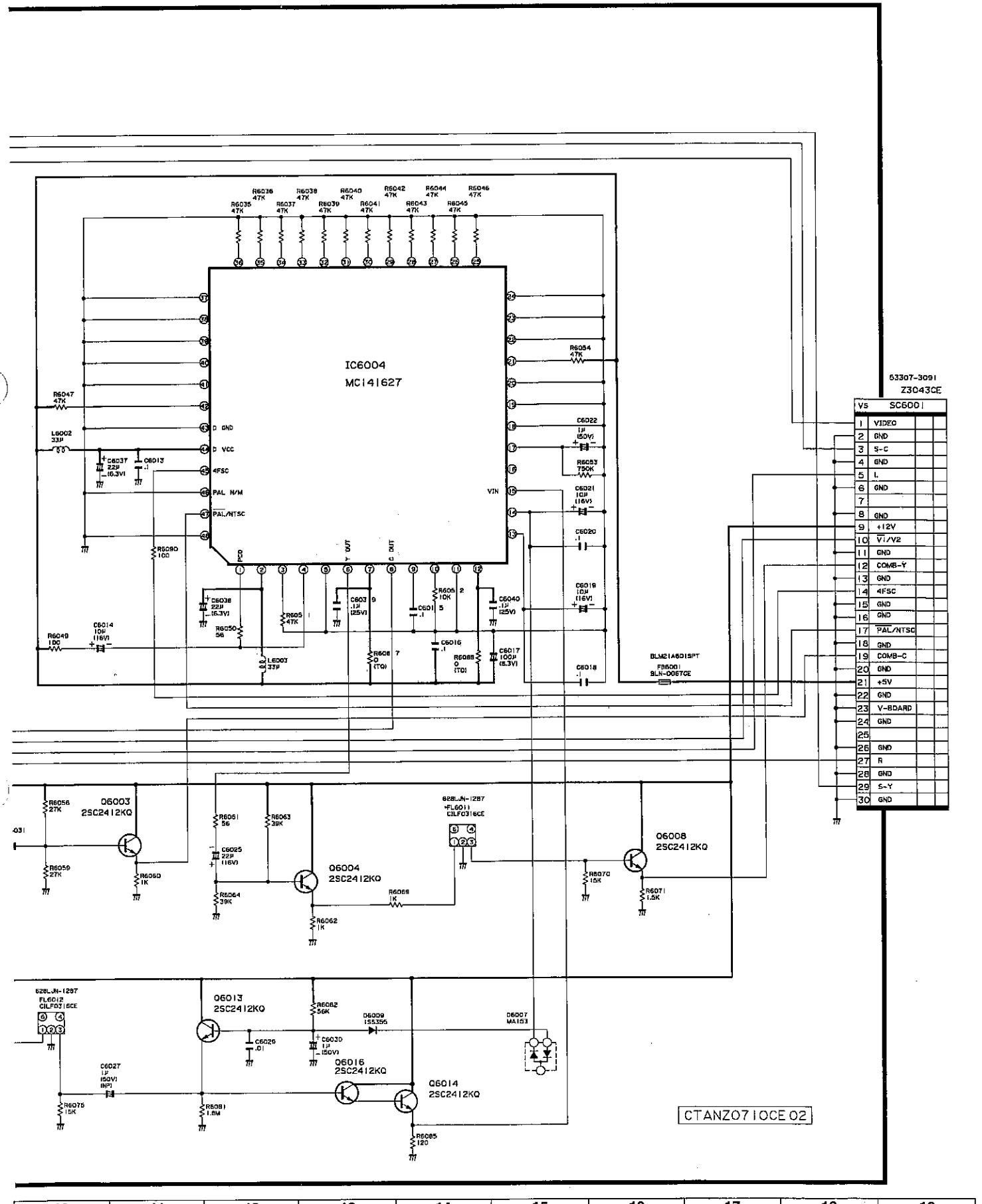




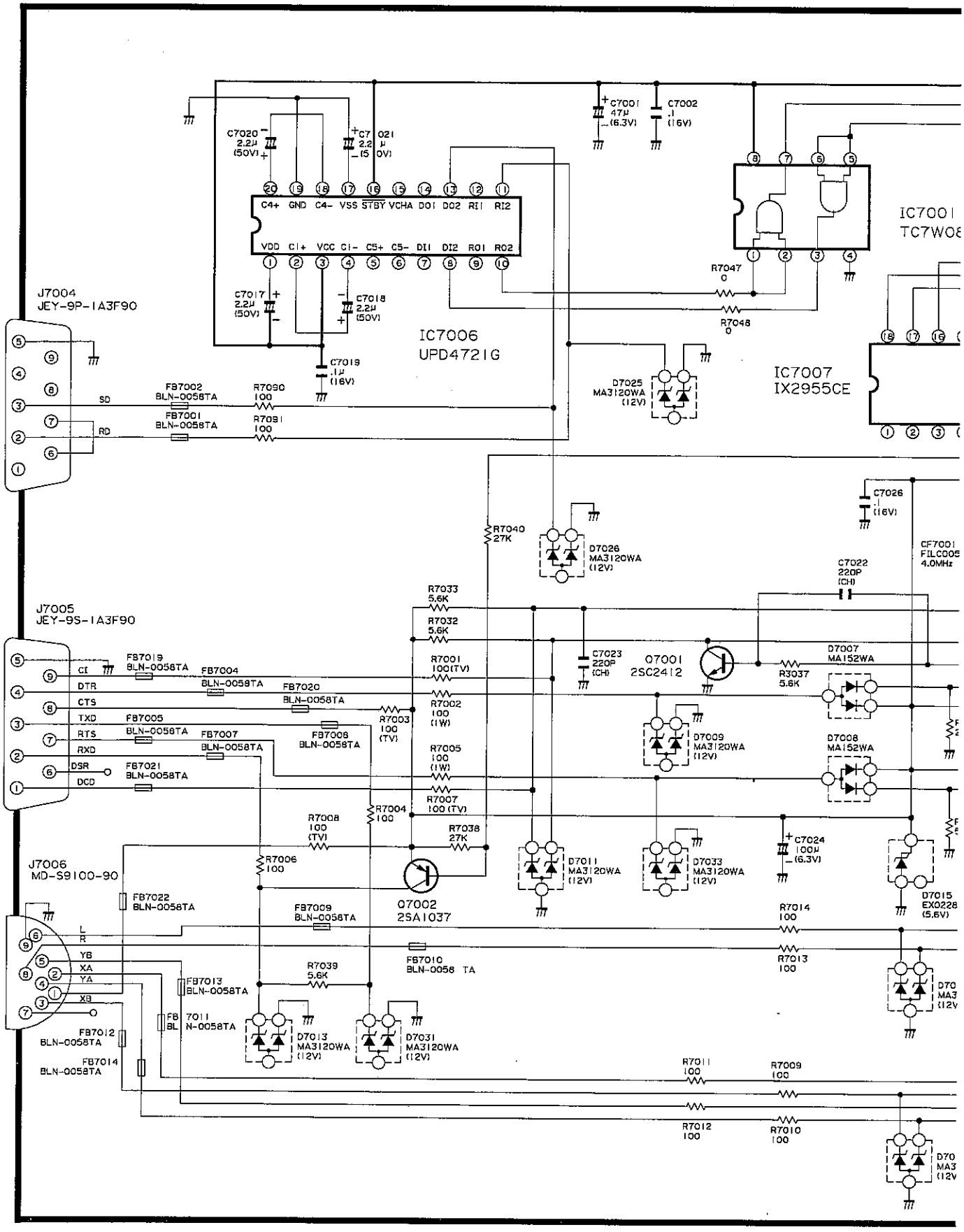
10	11	12	13	14	15	16	17	18	19

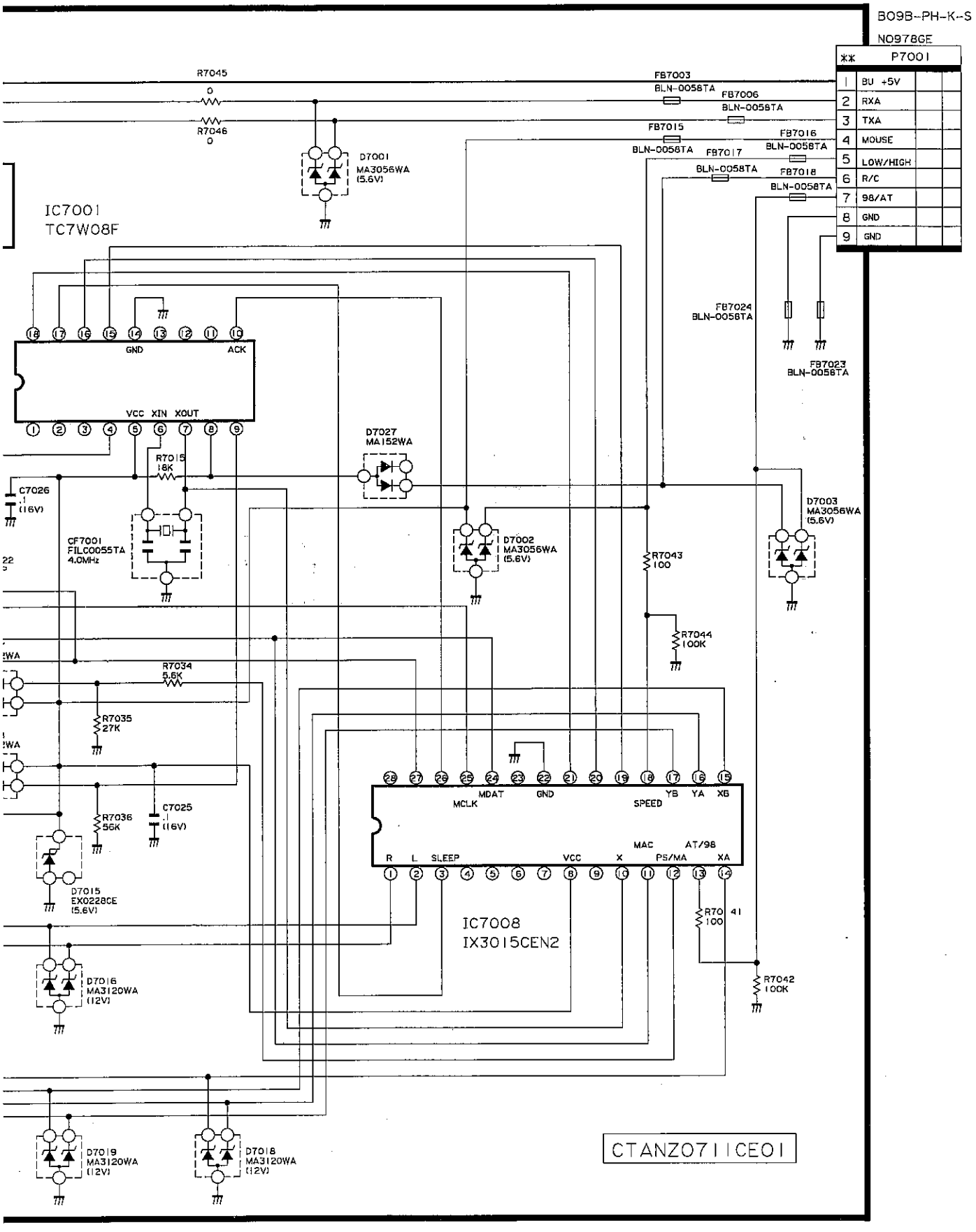
■ VIDEO BOARD UNIT / VIDEOKARTENEINHEIT 视频电路装置




IC6004
MC141627
53307-3091
Z3043CE
SC6001
1 VIDEO
2 GND
3 S-C
4 GND
5 L
6 GND
7
8 GND
9 +12V
10 V1/V2
11 GND
12 COMB-Y
13 GND
14 4FSC
15 GND
16 GND
17 PAL/NTSC
18 GND
19 COMB-C
20 GND
21 +5V
22 GND
23 V-BOARD
24 GND
25
26 GND
27 R
28 GND
29 S-Y
30 GND
Q6003
2SC2412KQ
Q6004
2SC2412KQ
Q6008
2SC2412KQ
Q6013
2SC2412KQ
Q6016
2SC2412KQ
Q6014
2SC2412KQ
CTANZ071OCE02

■ COMPUTER CONTROL CABLE UNIT / COMPUTER-STEUERUNGSKABELEINHEIT 电脑控制电缆装置

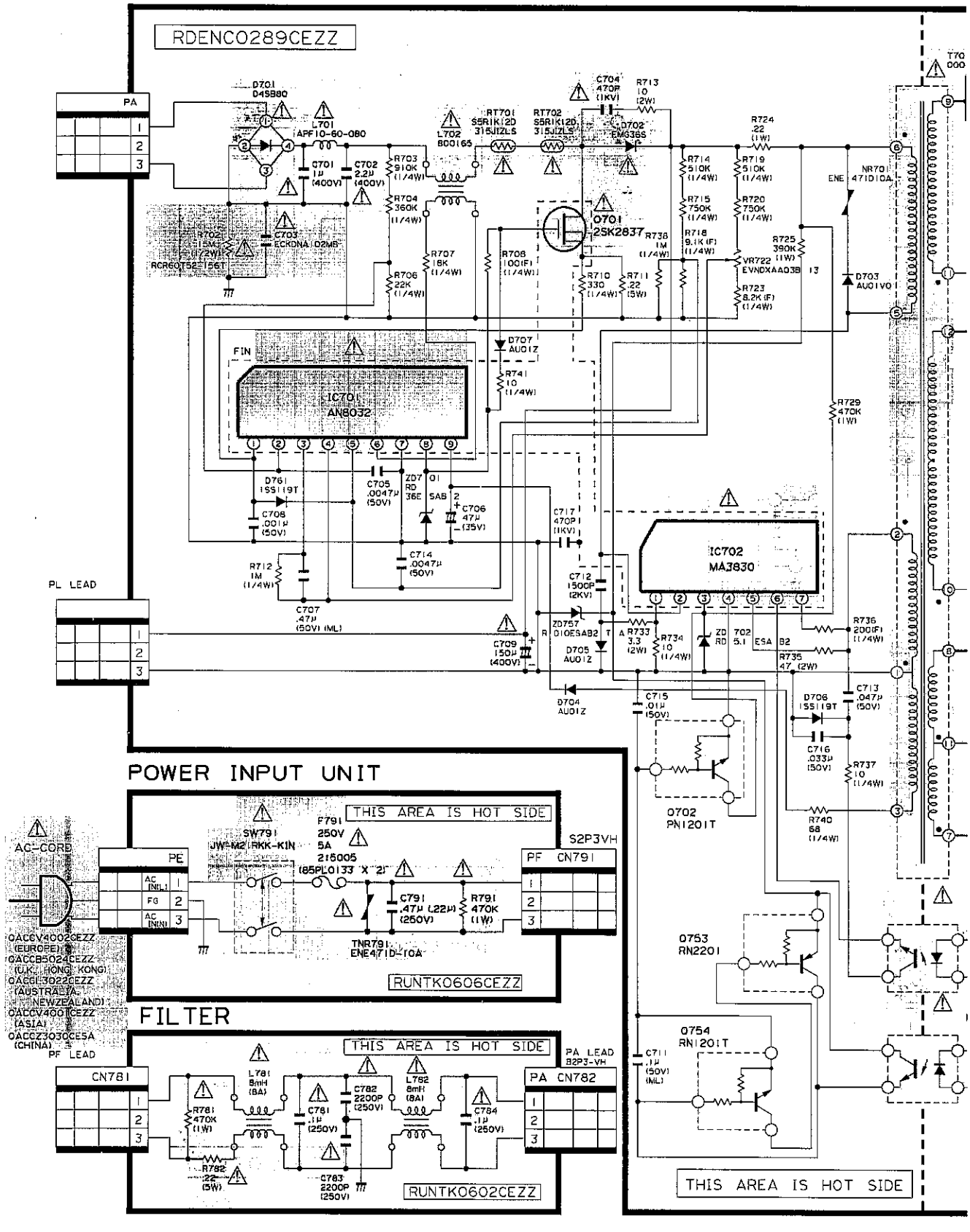


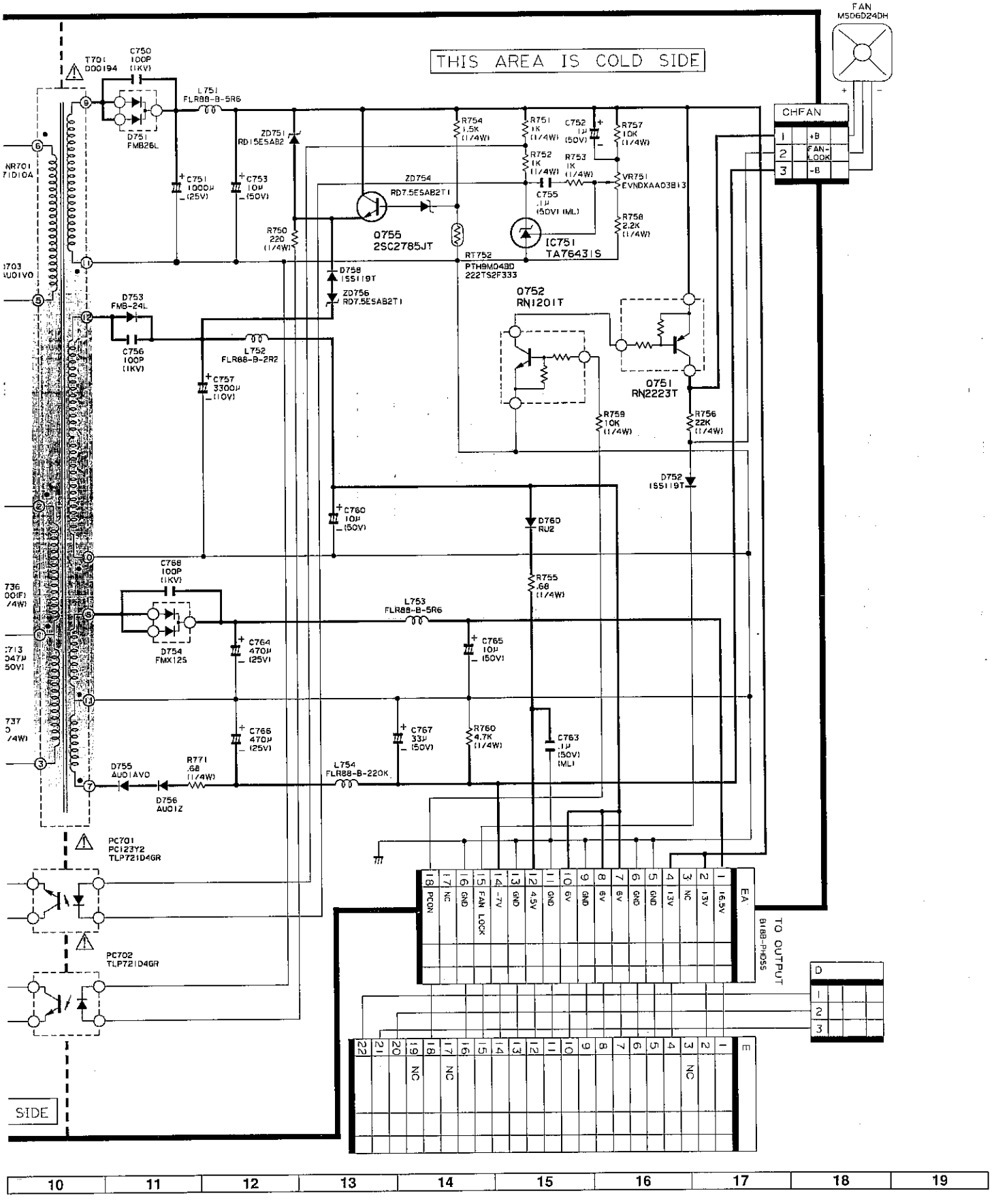


10	11	12	13	14	15	16	17	18	19

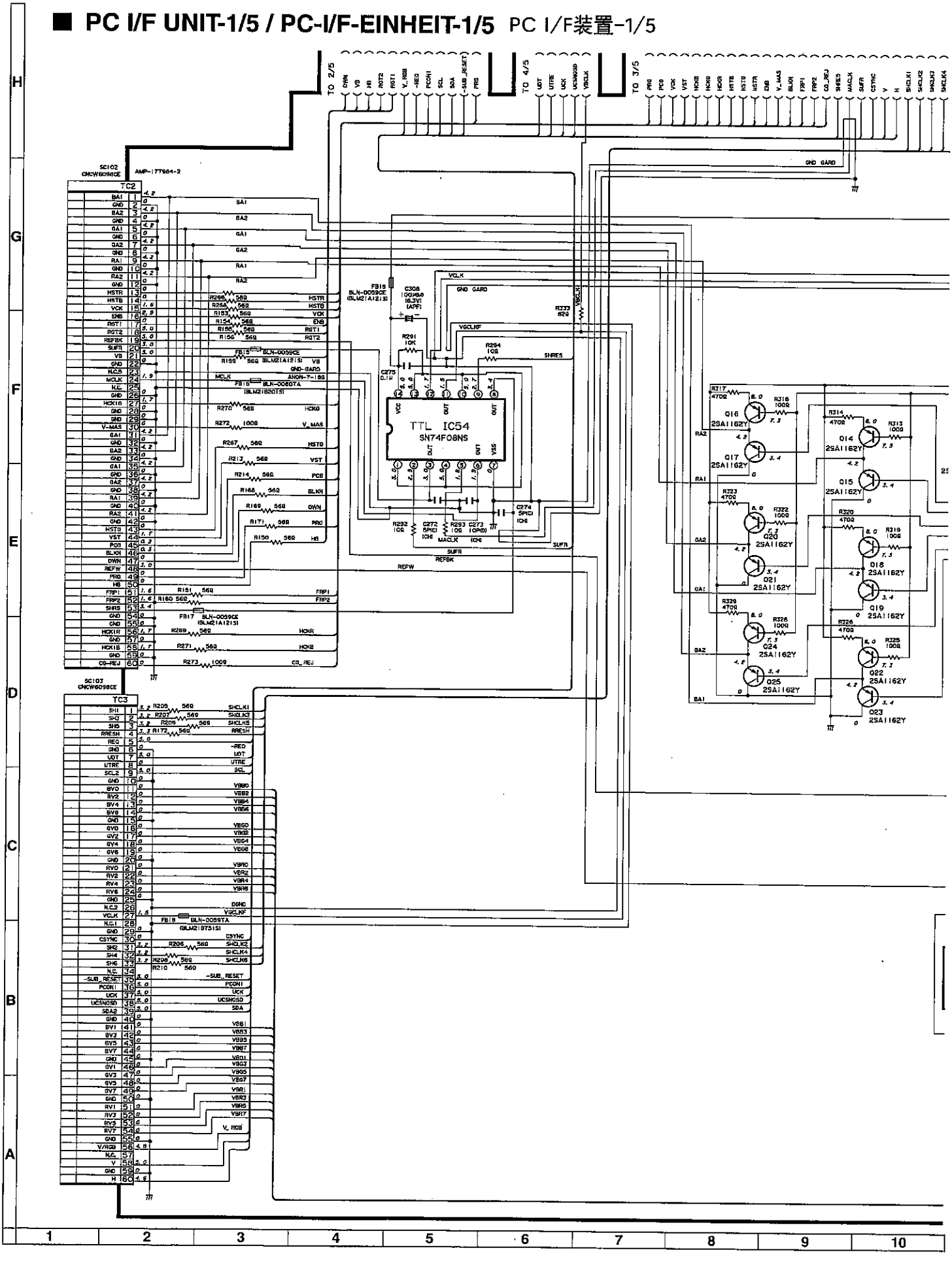
■ POWER UNIT and FILTER UNIT and AC-SW UNIT / NETZTEIL, FILTEREINHEIT und NETZSCHALTEREINHEIT

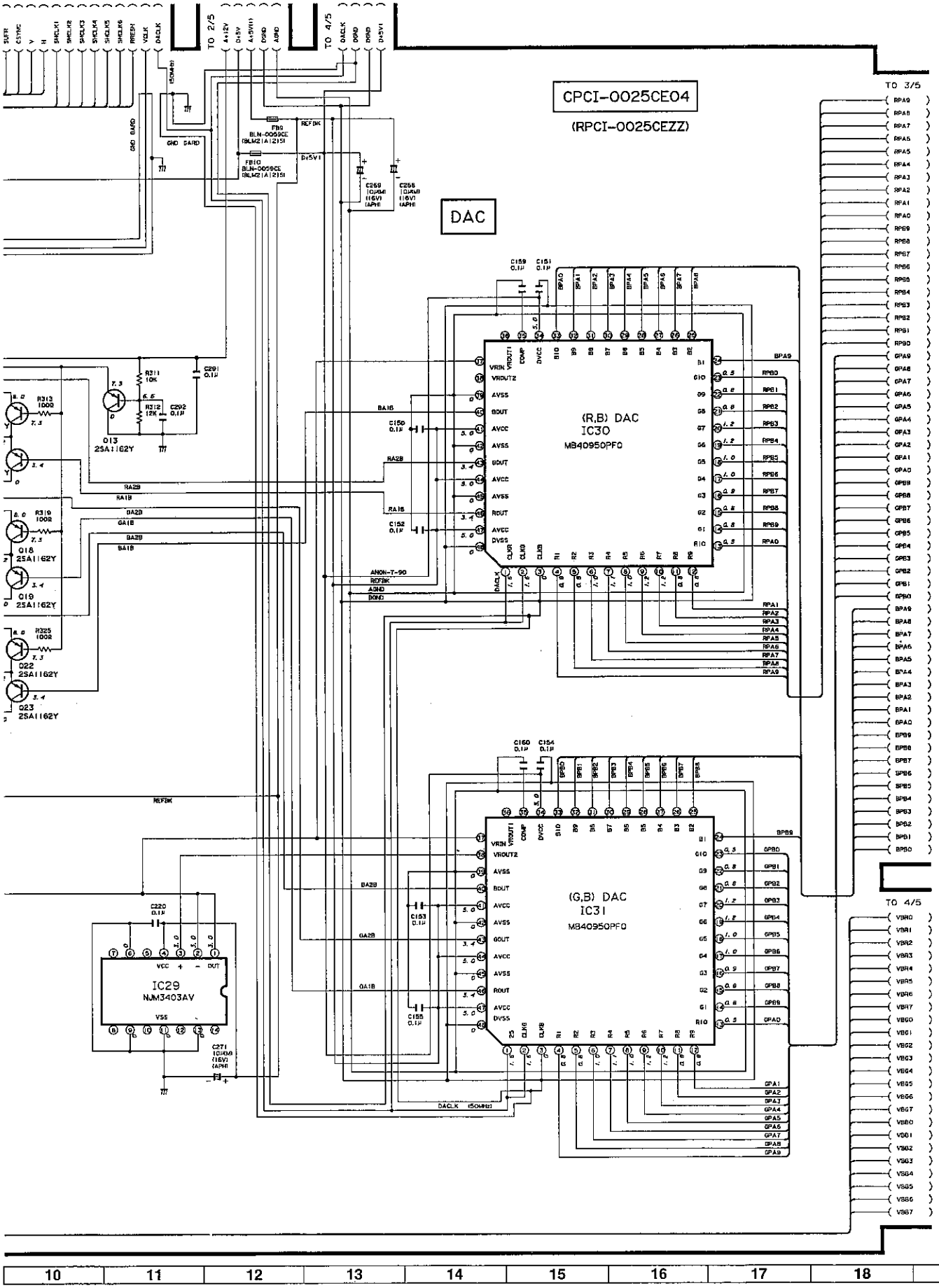
电源装置、滤波器以及交流开关装置



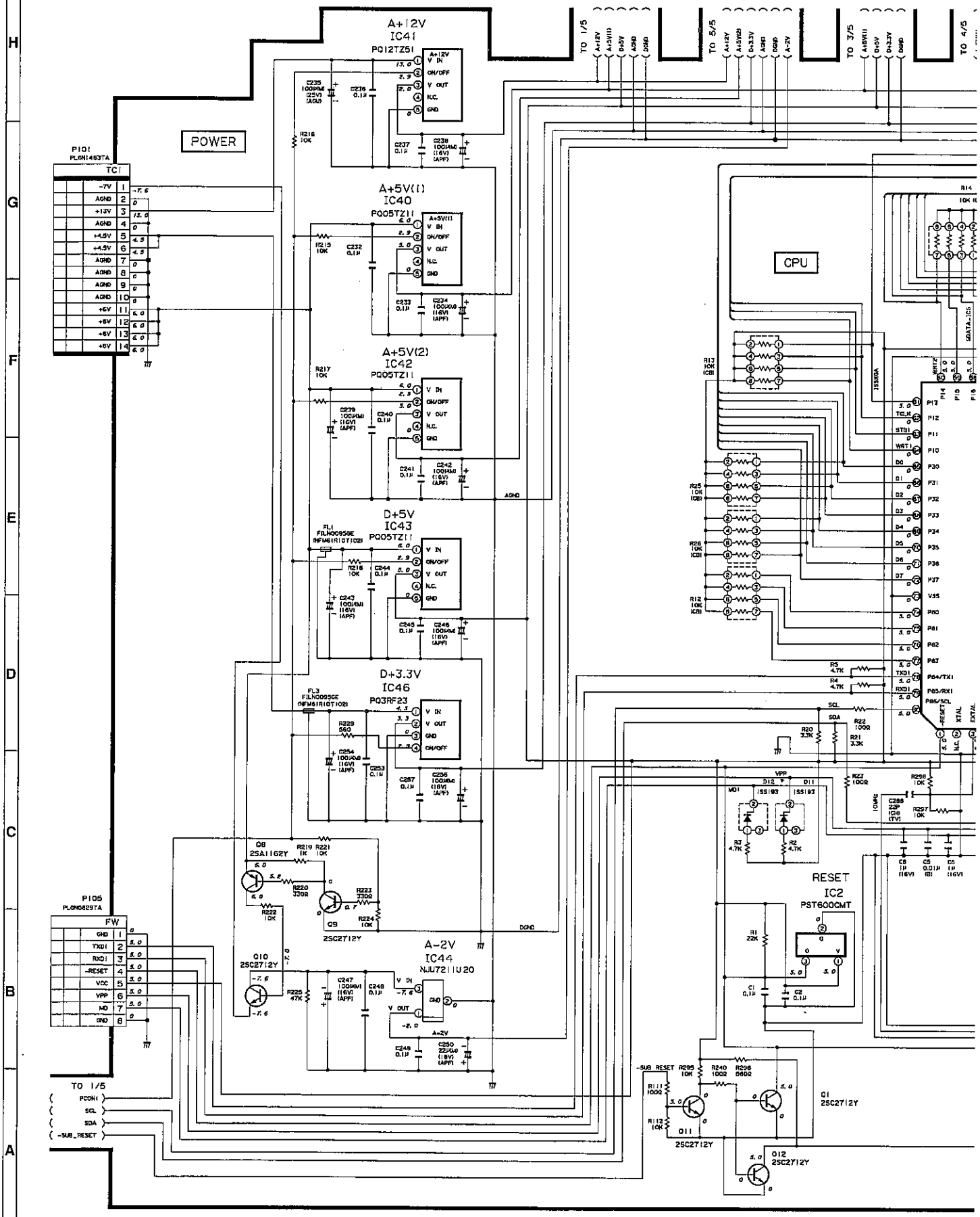

THIS AREA IS COLD SIDE
FAN
MSD6D24DH
CHFAN
+B
FAN LOCK
-B
T701
000194
C750
100P
(1KV)
L751
FLR88-B-5R6
D751
FMB26L
ZD751
RD15ESAB2
C751
1000μ
(25V)
C753
10μ
(50V)
R754
1.5K
(1/4W)
R751
1K
(1/4W)
C752
1μ
(50V)
R757
10K
(1/4W)
R752
1K
(1/4W)
R753
1K
(1/4W)
VR751
EVNDXAA03B13
ZD754
RD7.5ESAB2T1
C755
.1μ
(50V) (ML)
R758
2.2K
(1/4W)
0755
2SC2785JT
IC751
TA7643IS
R750
220
(1/4W)
RT752
PTH9M04BD
222TS2F333
D758
1SS119T
ZD756
RD7.5ESAB2T1
0752
RN1201T
D753
FMB-24L
C756
100P
(1KV)
L752
FLR88-B-2R2
C757
3300μ
(10V)
0751
RN2223T
R759
10K
(1/4W)
R756
22K
(1/4W)
D752
1SS119T
C760
10μ
(50V)
D760
RU2
C768
100P
(1KV)
R755
.68
(1/4W)
L753
FLR88-B-5R6
D754
FMX12S
C764
470μ
(25V)
C765
10μ
(50V)
C766
470μ
(25V)
C767
33μ
(50V)
R760
4.7K
(1/4W)
C763
.1μ
(50V)
(ML)
D755
AUD1AV0
R771
.68
(1/4W)
L754
FLR88-B-220K
D756
AUD1Z
PC701
PC123Y2
TLP721D4GR
PC702
TLP721D4GR
SIDE
EA
TO OUTPUT
D
E

■ PC I/F UNIT-1/5 / PC-I/F-EINHEIT-1/5 PC I/F装置-1/5



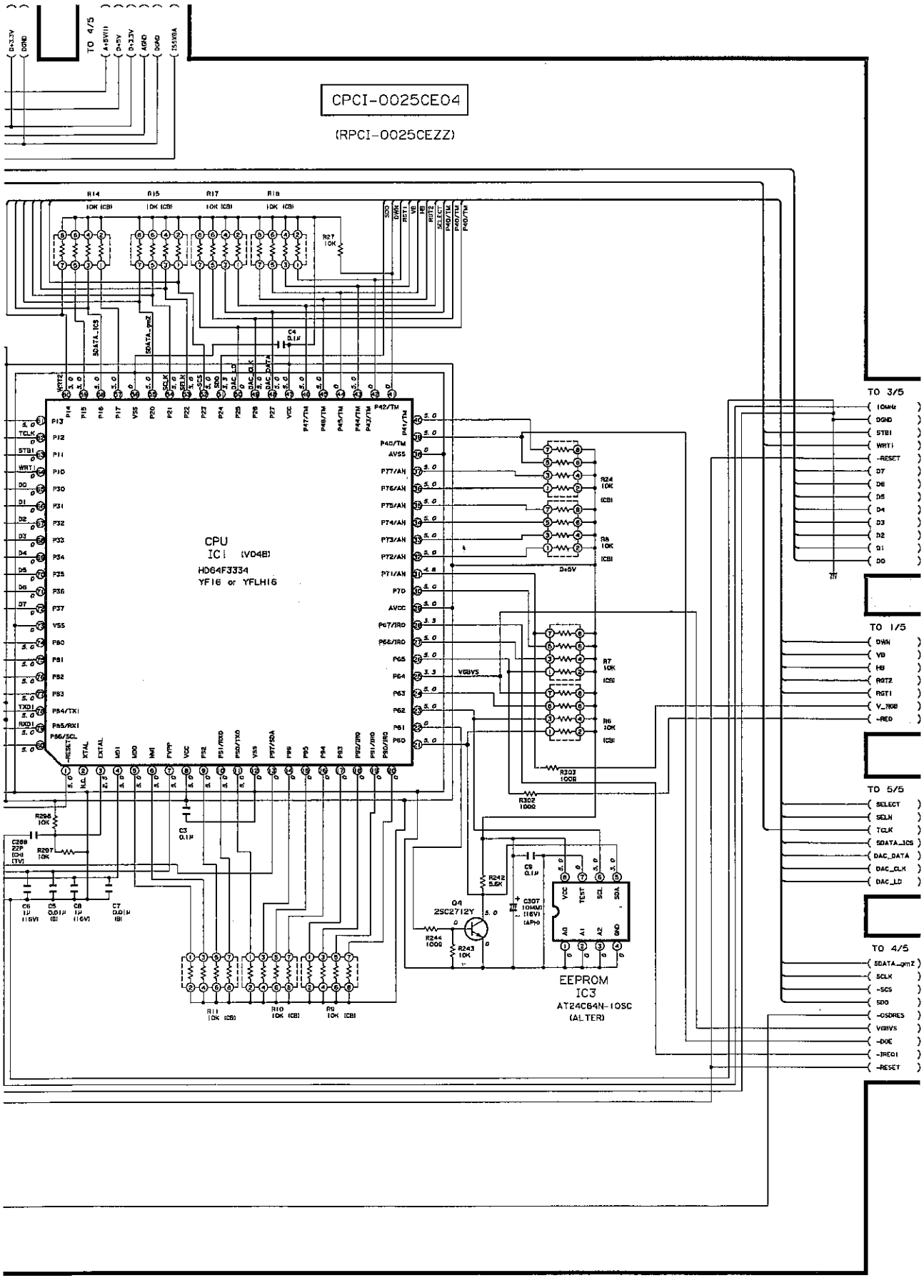

CPCI-0025CE04
(RPCI-0025CEZZ)
DAC
TO 2/5
TO 4/5
TO 3/5
TO 4/5
(R,B) DAC
IC30
MB40950PFQ
(G,B) DAC
IC31
MB40950PFQ
IC29
NJM3403AV
Q13
2SA1162Y
Q18
2SA1162Y
Q19
2SA1162Y
Q22
2SA1162Y
Q23
2SA1162Y
REFBK
AGND
DGND
DACLK (50MHz)

■ PC I/F UNIT-2/5 / PC-I/F-EINHEIT-2/5 PC I/F装置-2/5

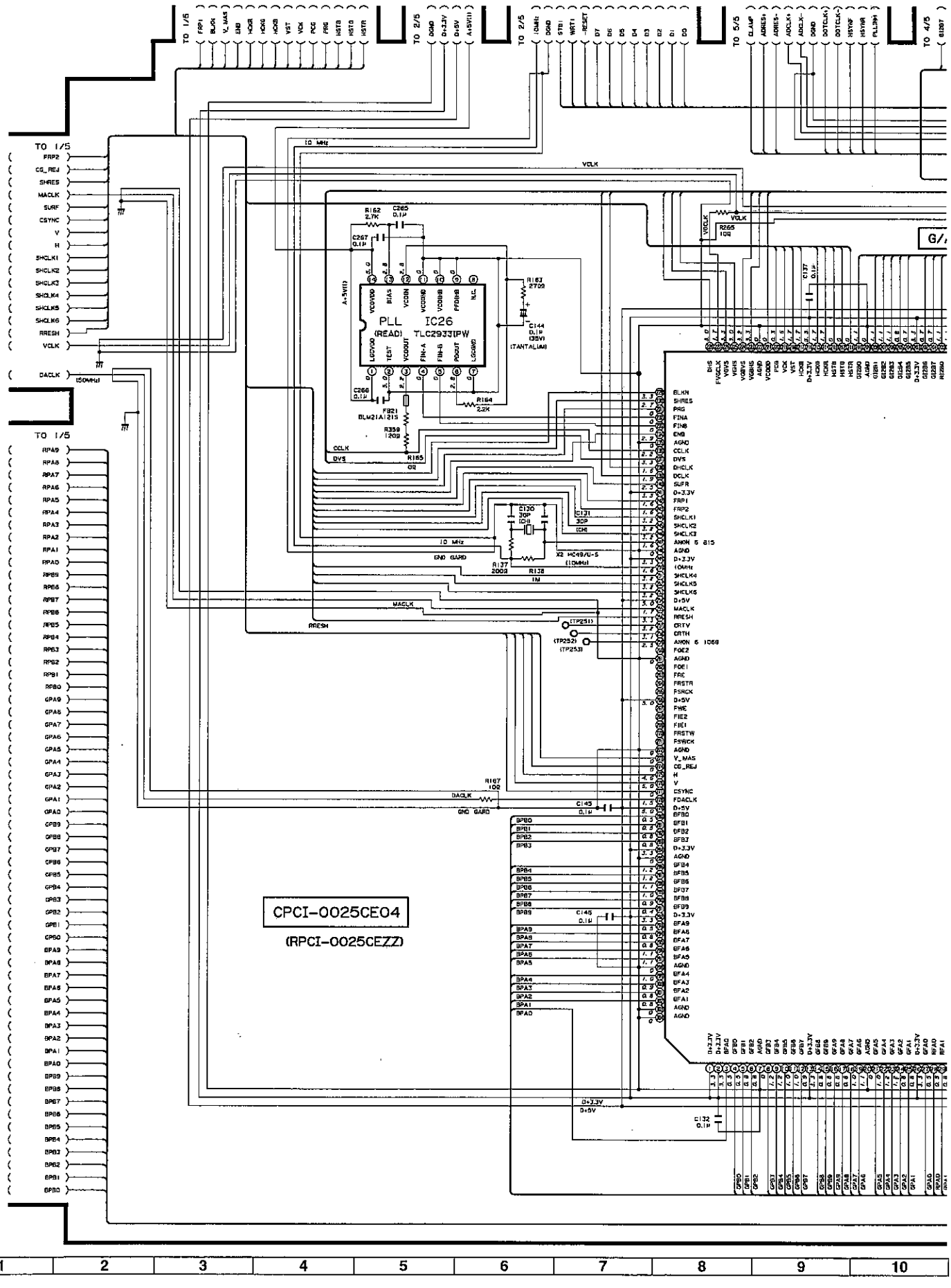


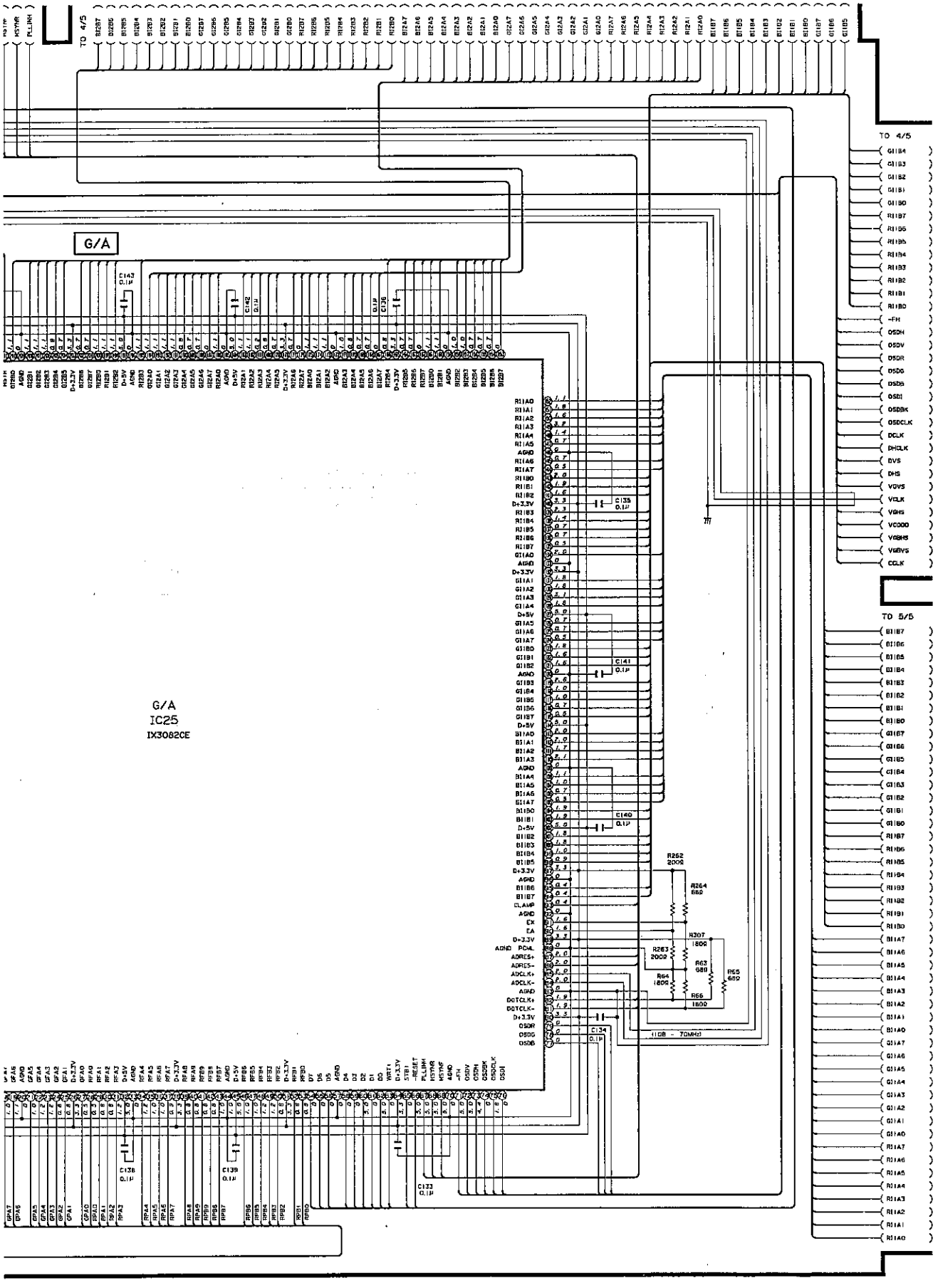
CPCI-0025CE04

(RPCI-0025CEZZ)



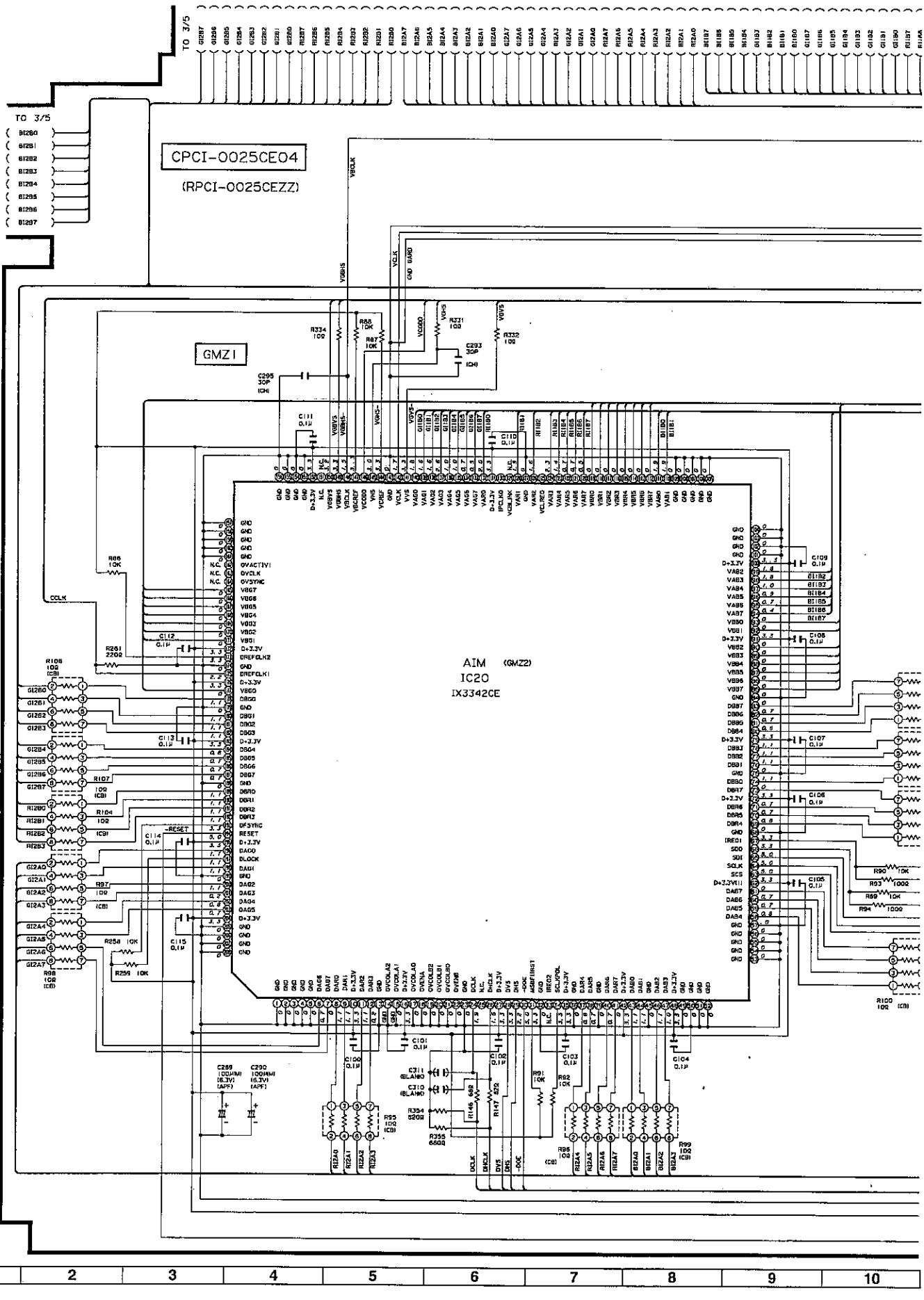
■ PC I/F UNIT-3/5 / PC-I/F-EINHEIT-3/5 PC I/F装置-3/5

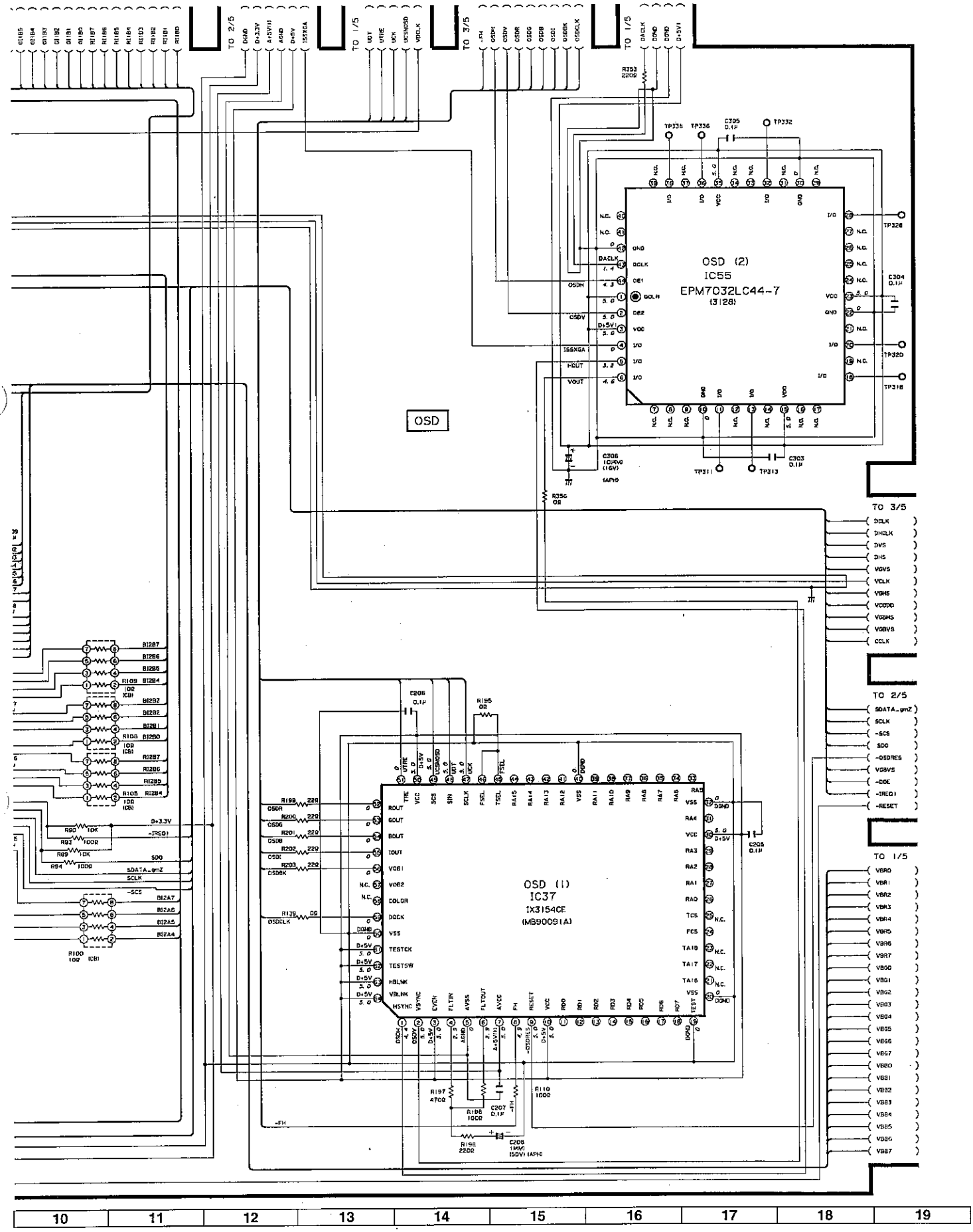




10	11	12	13	14	15	16	17	18	19

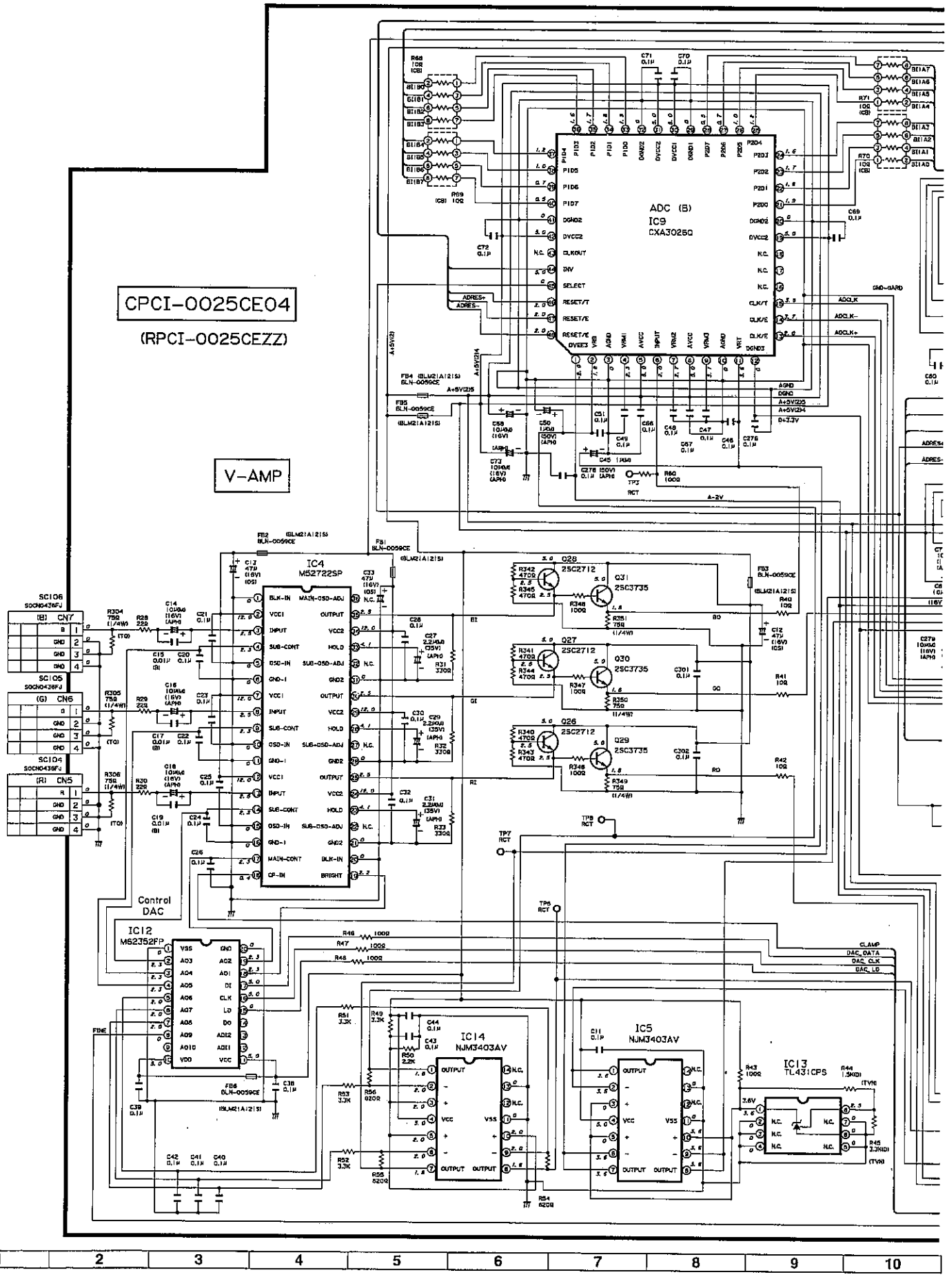
■ PC I/F UNIT-4/5 / PC-I/F-EINHEIT-4/5 PC I/F装置-4/5

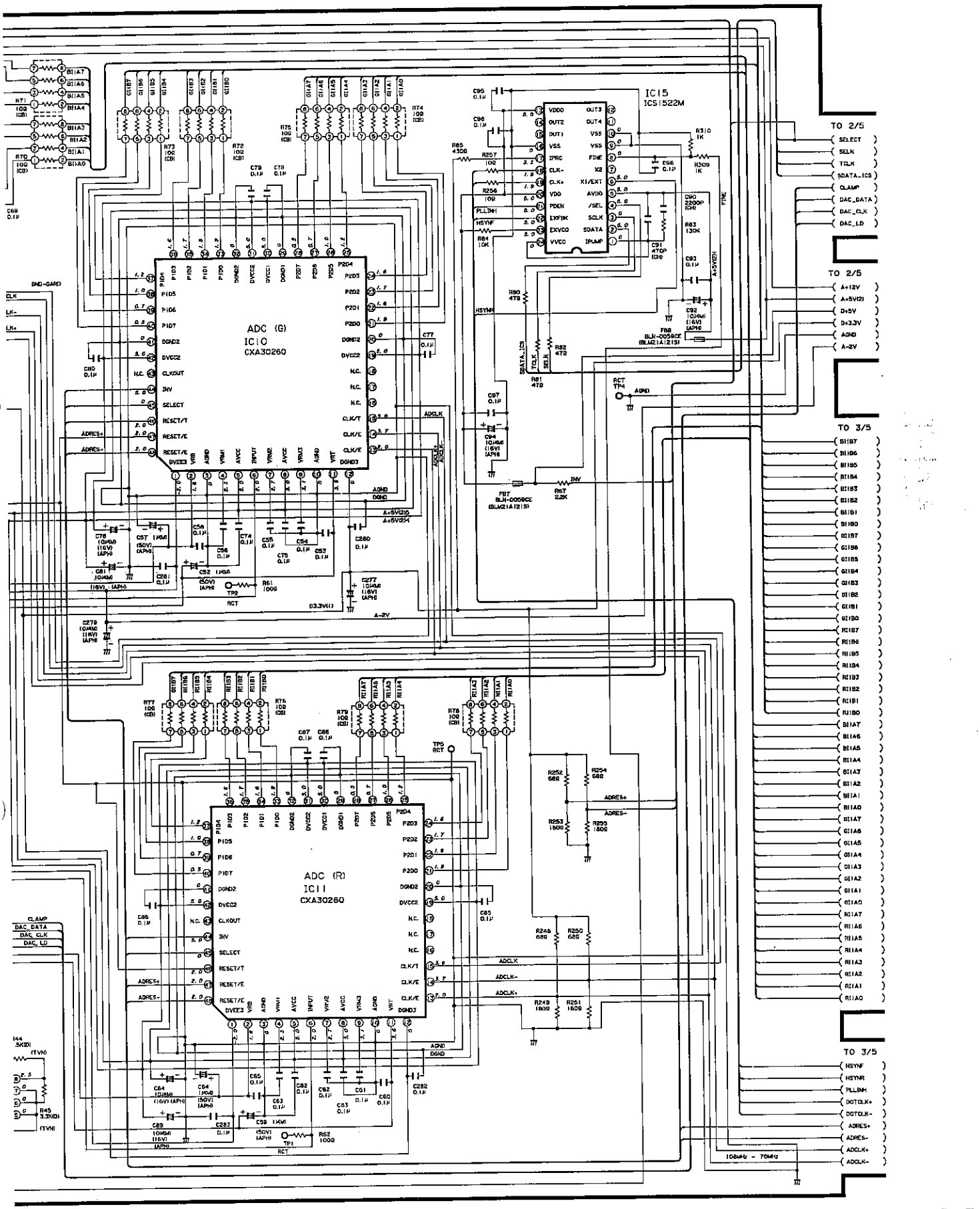




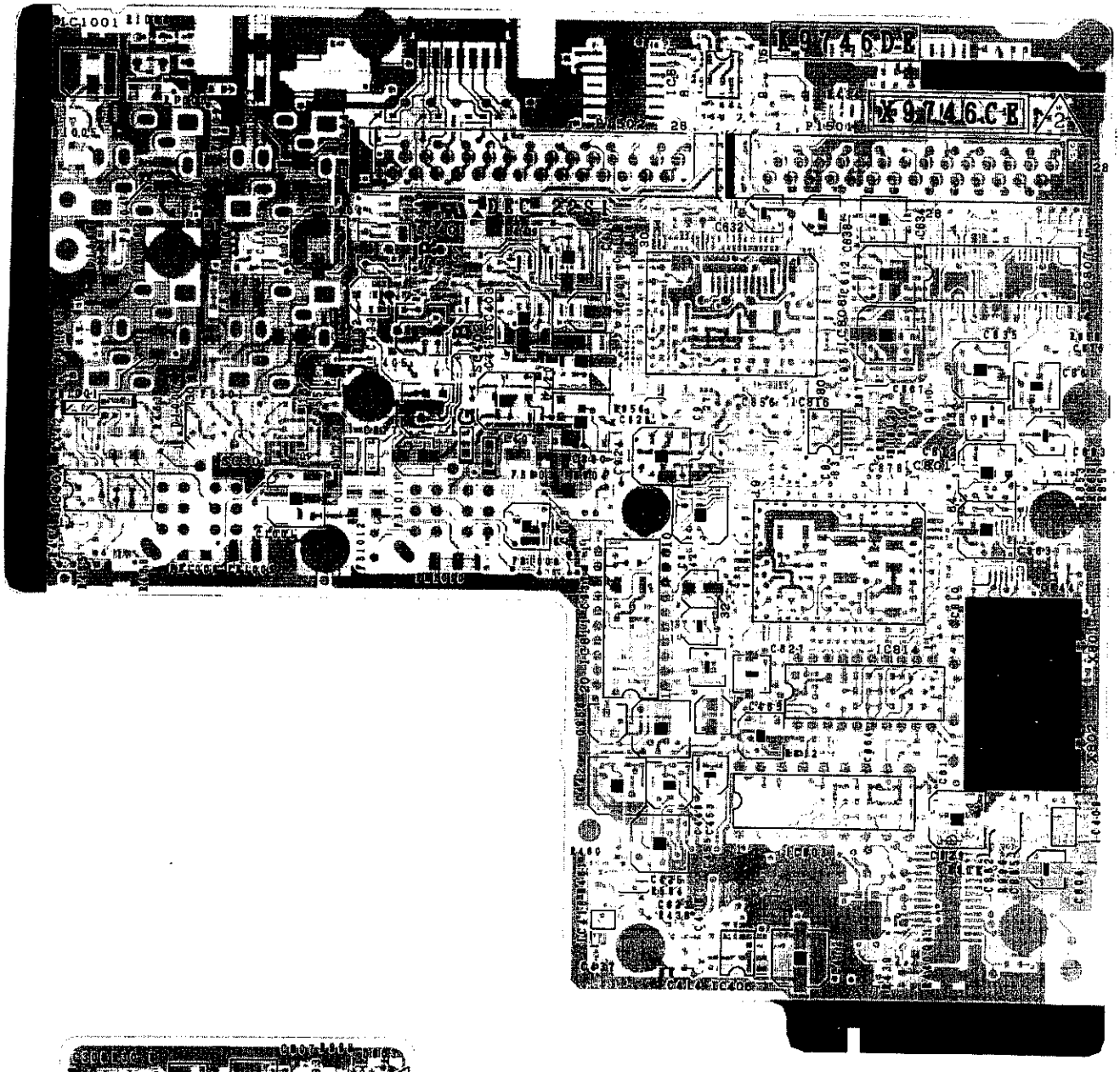
10	11	12	13	14	15	16	17	18	19

■ PC I/F UNIT-5/5 / PC-I/F-EINHEIT-5/5 PC I/F装置-5/5

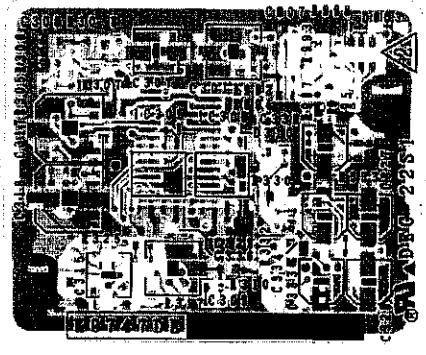



ADC (G)
IC10
CXA3026Q
ADC (R)
IC11
CXA3026Q
IC15
ICS1522M
TO 2/5
TO 3/5
TO 3/5

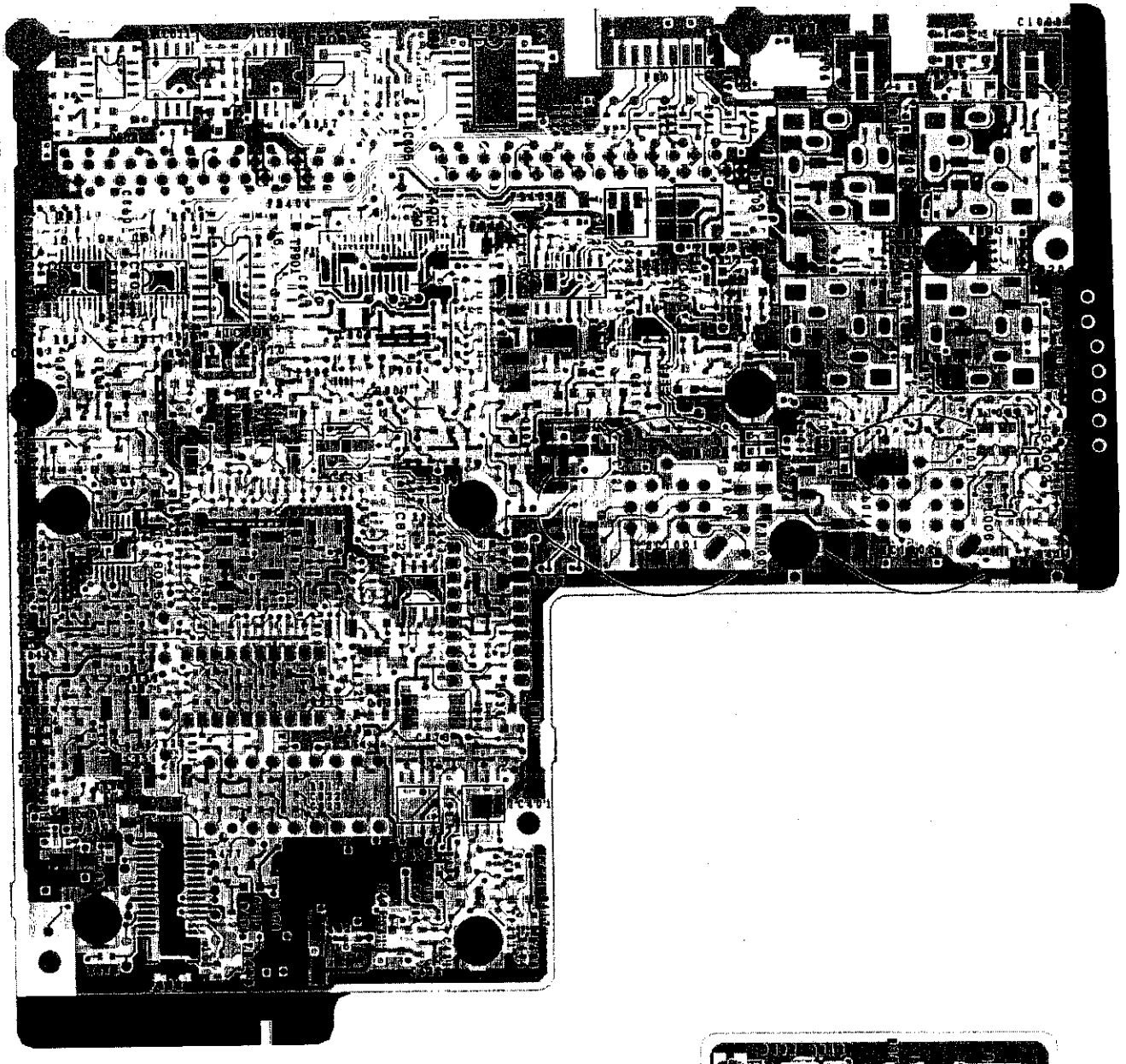
PRINTED WIRING BOARD ASSEMBLIES / LEITERPLATTENINHEITIN 印刷电路板组件



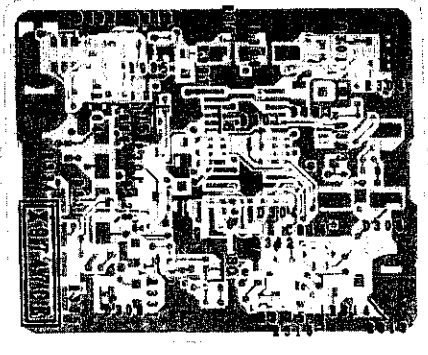
Signal Unit (Wiring Side) / Signaleinheit (Leiterbahnseite)
信号装置印刷电路板（线路贴置侧）



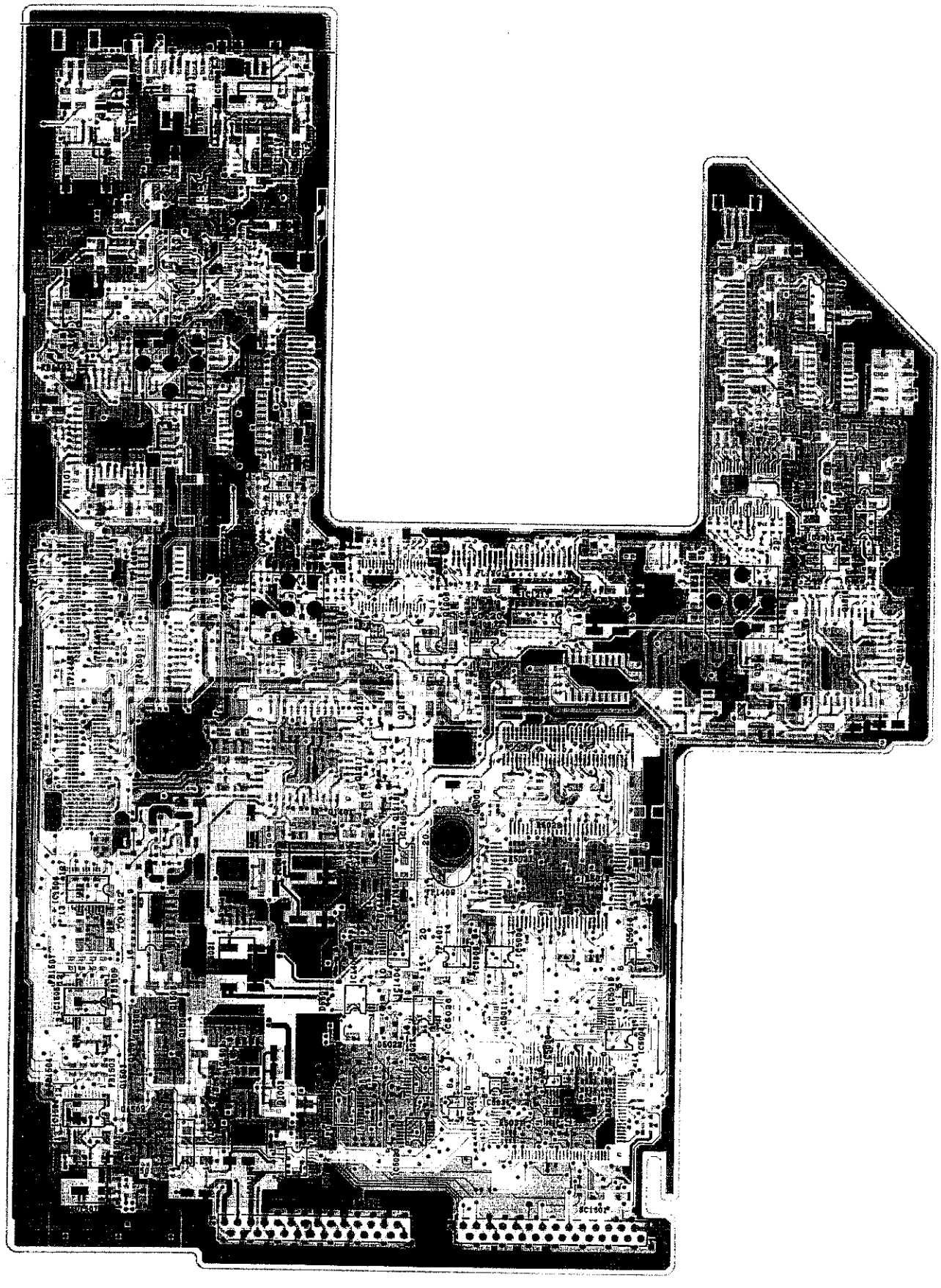
Signal Sub Unit (Wiring Side) / Signal-Nebeneinheit (Leiterbahnseite)
信号装置辅助印刷电路板（线路贴置侧）



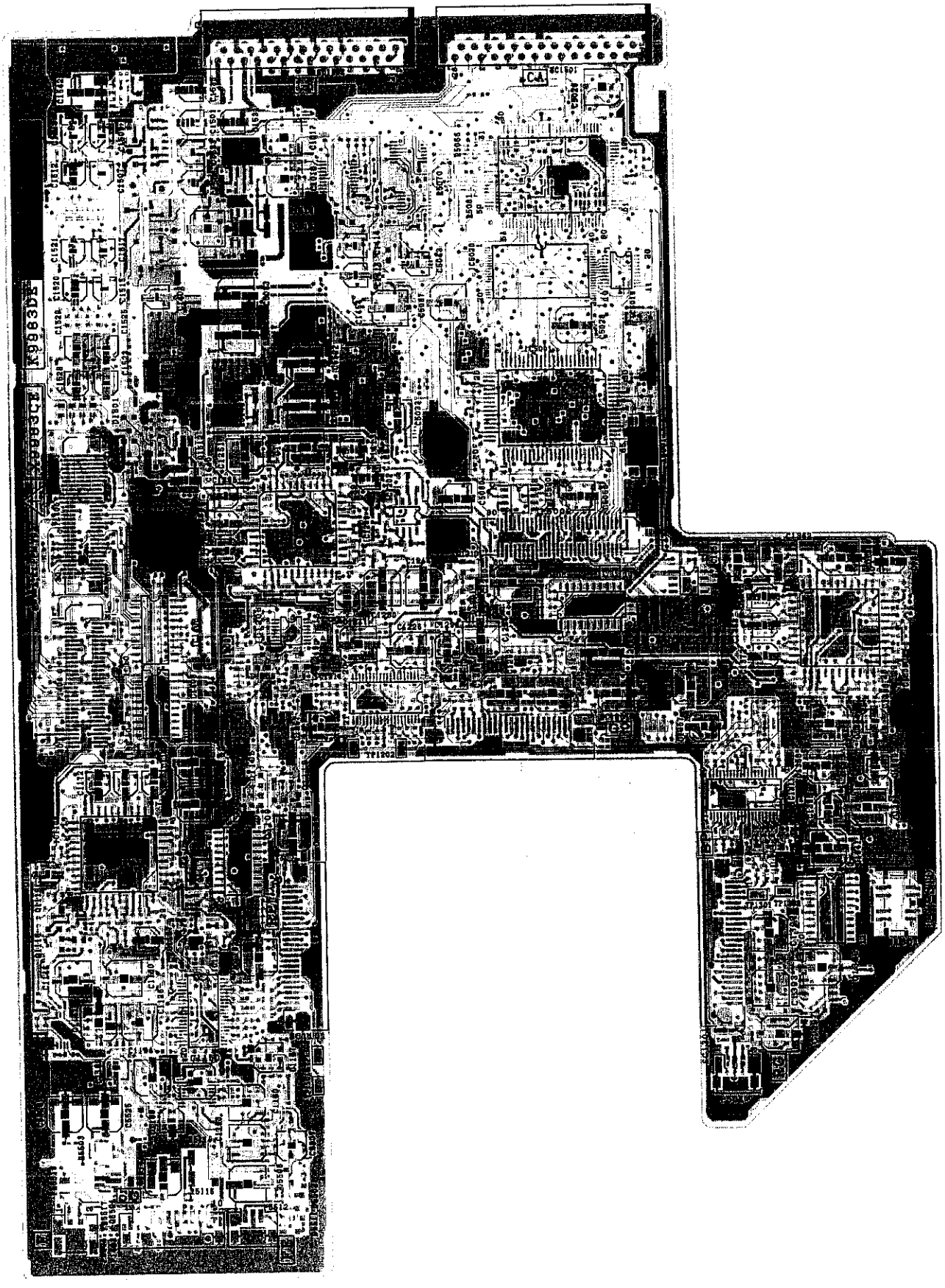
Signal Unit (Component Side) /
Signaleinheit (Bestückungsseite)
信号装置印刷电路板（部件装备侧）



Signal Sub Unit (Component Side) /
Signal-Nebeneinheit (Bestückungsseite)
信号装置辅助印刷电路板（部件装备侧）

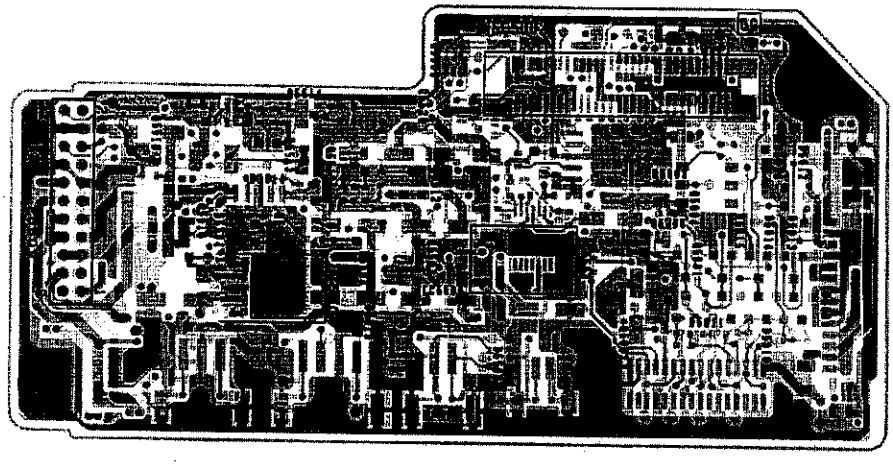


Output Unit (Wiring Side) / Ausgabeeinheit (Leiterbahnseite)
输出装置印刷电路板（线路贴置侧）

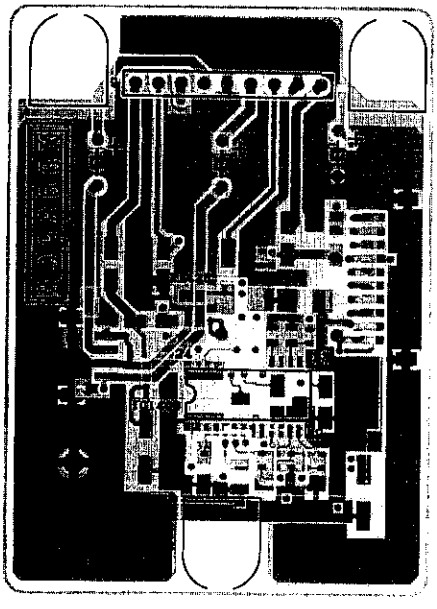


Output Unit (Component Side) / Ausgabeeinheit (Bestückungsseite)

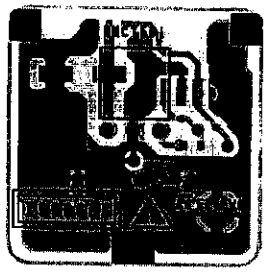
输出装置印刷电路板（部件装备侧）



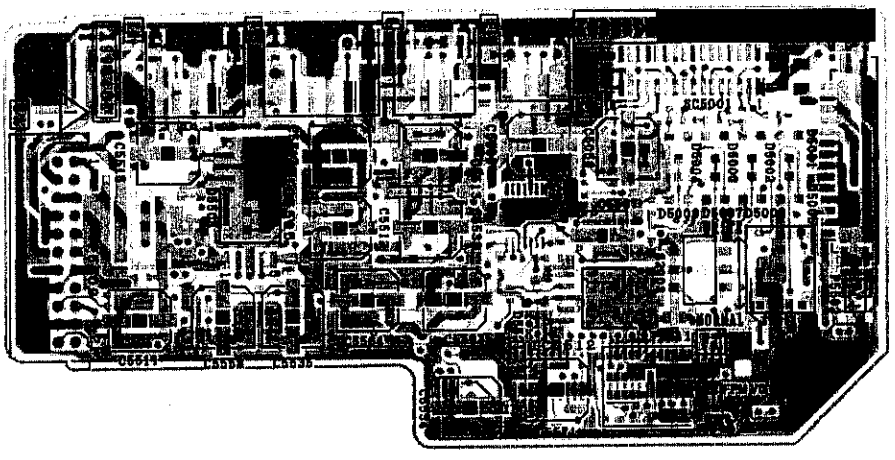
Output Sub Unit (Wiring Side) /
Ausgabe-Nebeneinheit (Leiterbahnseite)
输出装置辅助印刷电路板（线路贴置侧）



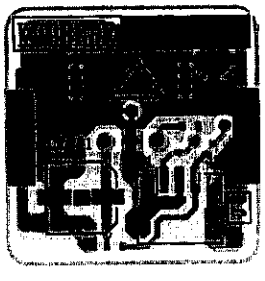
Sound Out Unit (Wiring Side) /
Tonausgabeeinheit (Leiterbahnseite)
音频信号输出装置印刷电路板（线路贴置侧）



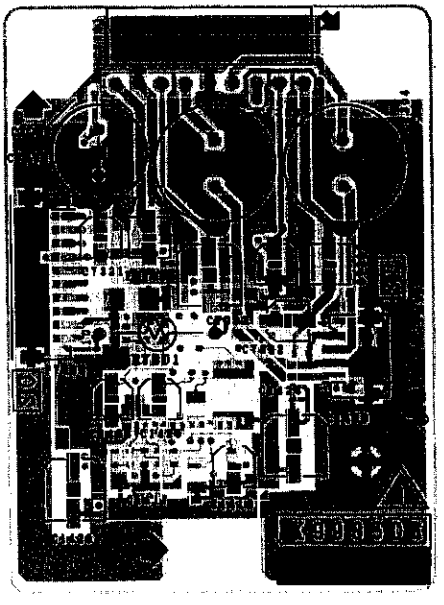
R/C Receiver Unit
(Wiring Side) /
Fernbedienungseinheit
(Leiterbahnseite)
遥控信号接收器印刷电路板
（线路贴置侧）



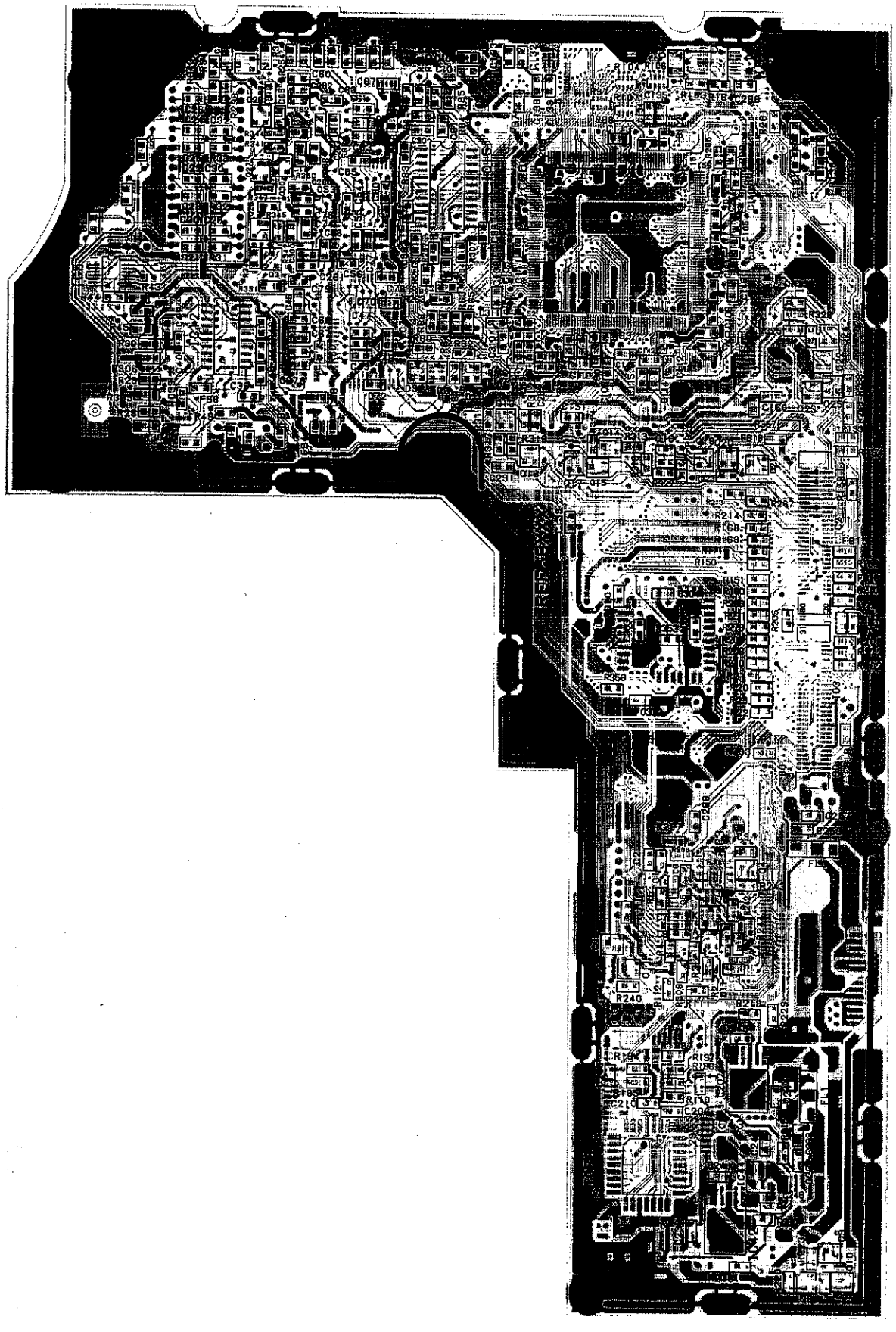
Output Sub Unit (Component Side) /
Ausgabe-Nebeneinheit (Bestückungsseite)
输出装置辅助印刷电路板（部件装备侧）



R/C Receiver Unit
(Component Side) /
Fernbedienungseinheit
(Bestückungsseite)
遥控信号接收器印刷电路板
（部件装备侧）

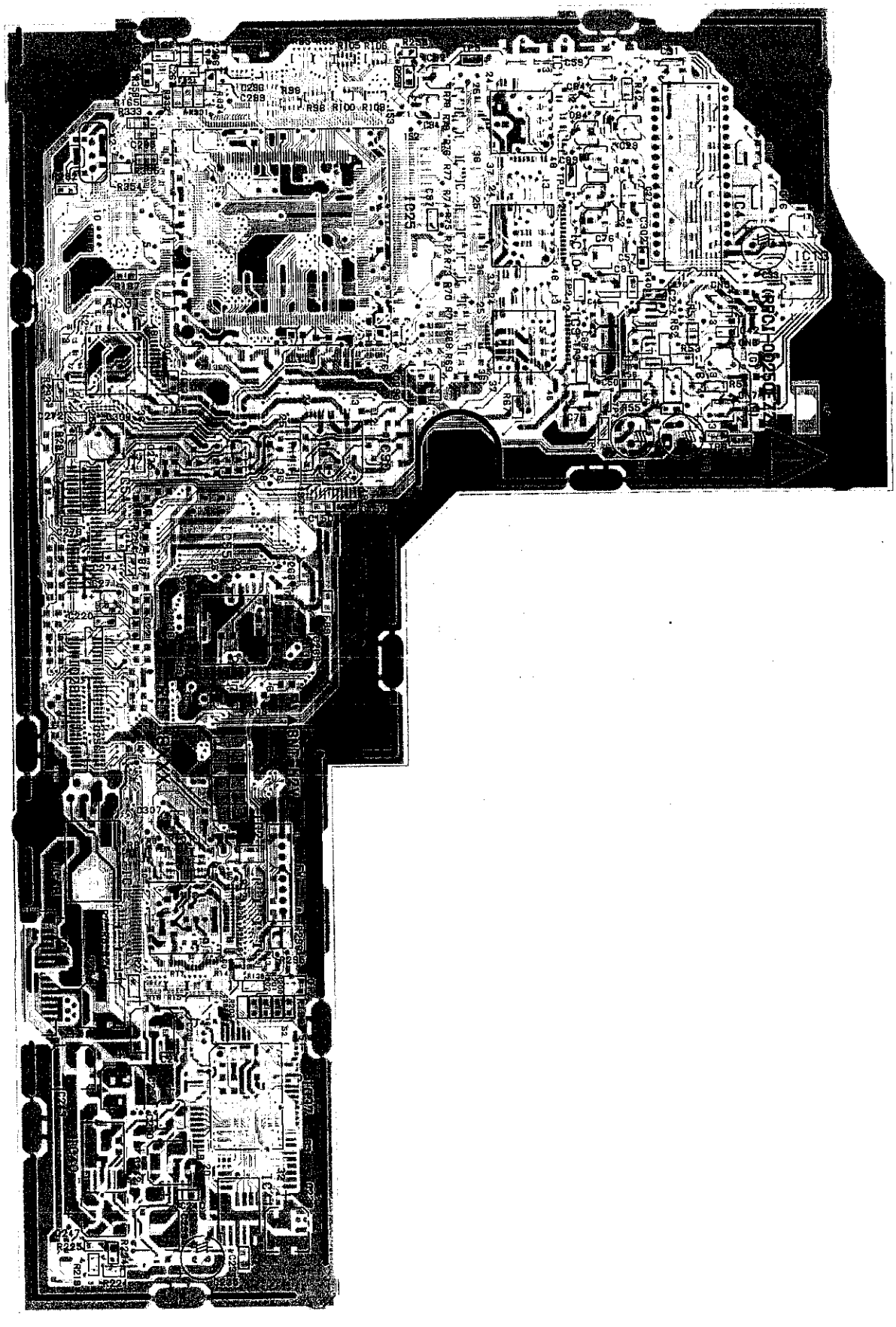


Sound Out Unit (Component Side) /
Tonausgabeeinheit (Bestückungsseite)
音频信号输出装置印刷电路板（部件装备侧）



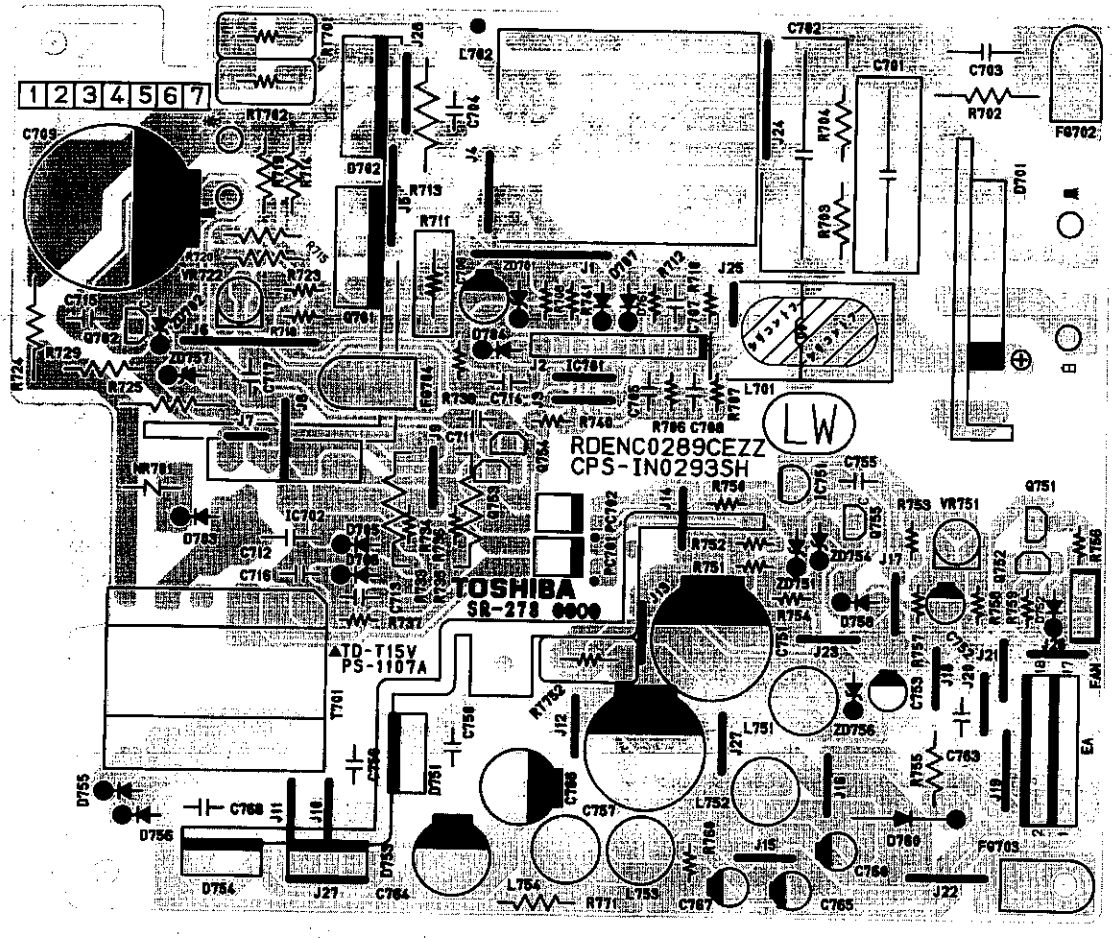
PC I/F Unit (Wiring Side) / PC-I/F-Einheit (Leiterbahnseite)

PC I/F装置印刷电路板（线路贴置侧）

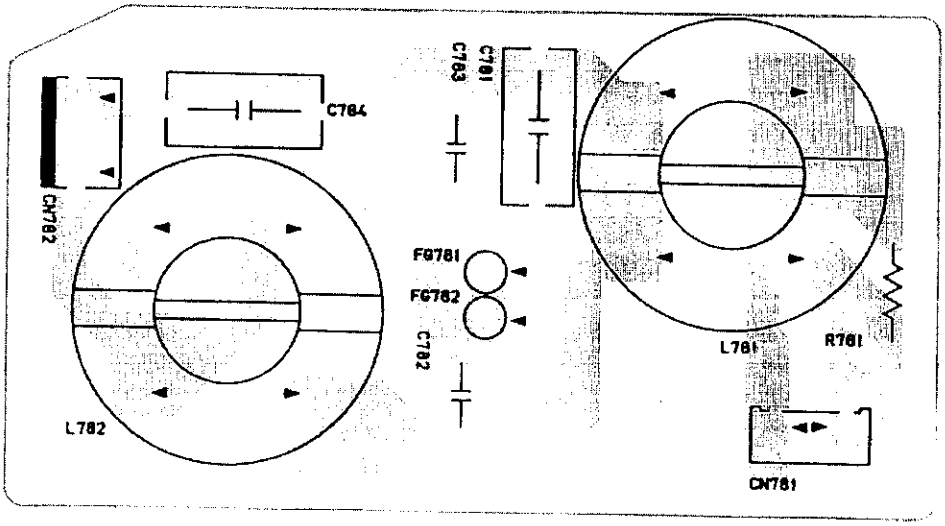


PC I/F Unit (Component Side) / PC-I/F-Einheit (Bestückungsseite)

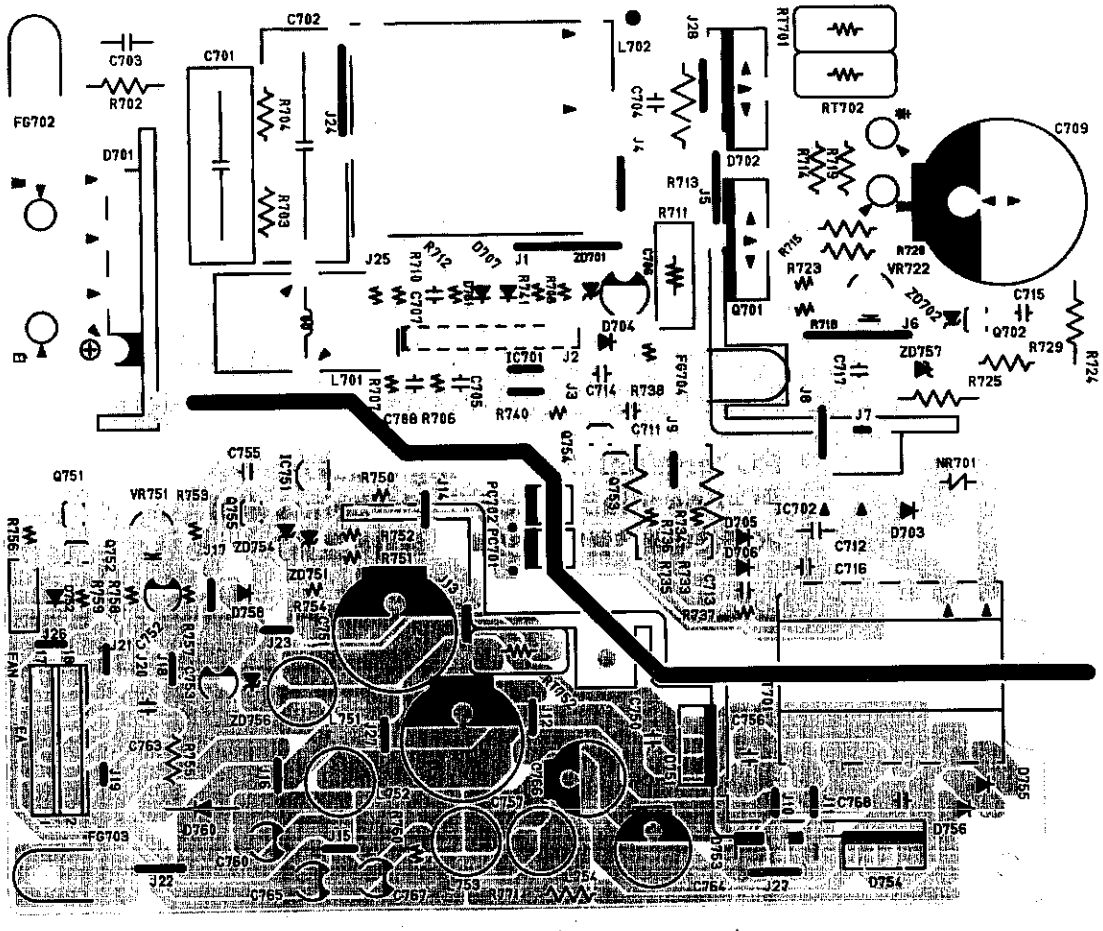
PC I/F装置印刷电路板（部件装备侧）



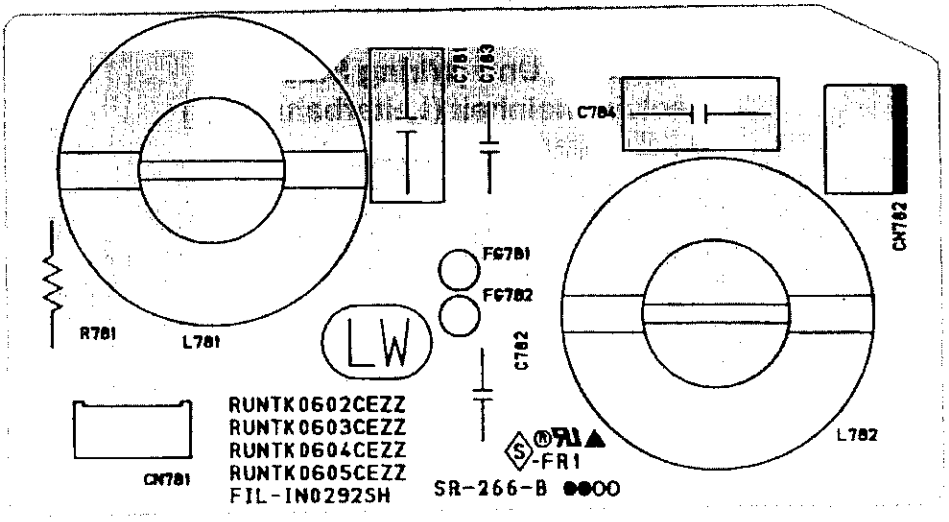
Power Unit (Wiring Side) / Netzeinheit (Leiterbahnseite)
电源装置印刷电路板（线路贴置侧）



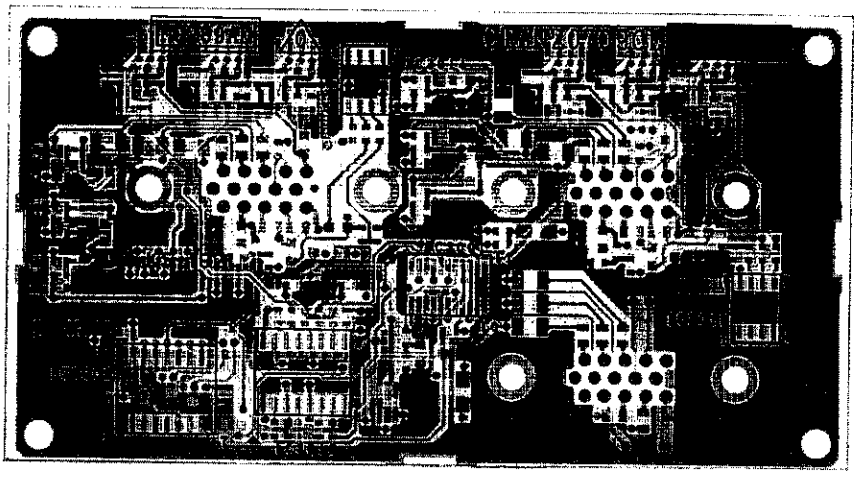
Filter Unit (Wiring Side) / Filterinheit (Leiterbahnseite)
滤波器印刷电路板（线路贴置侧）



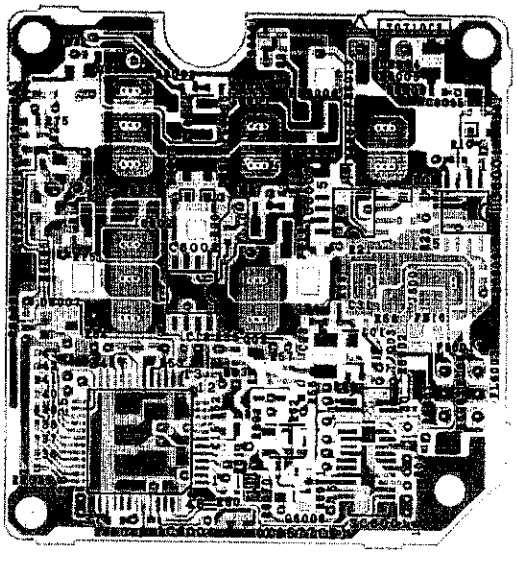
Power Unit (Component Side) / Netzeinheit (Bestückungsseite)
电源装置印刷电路板（部件装备侧）



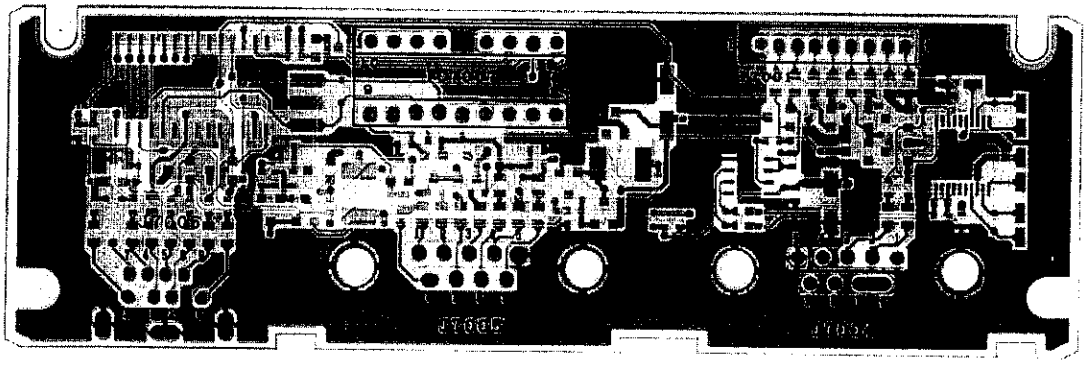
Filter Unit (Component Side) / Filterinheit (Bestückungsseite)
滤波器印刷电路板（部件装备侧）



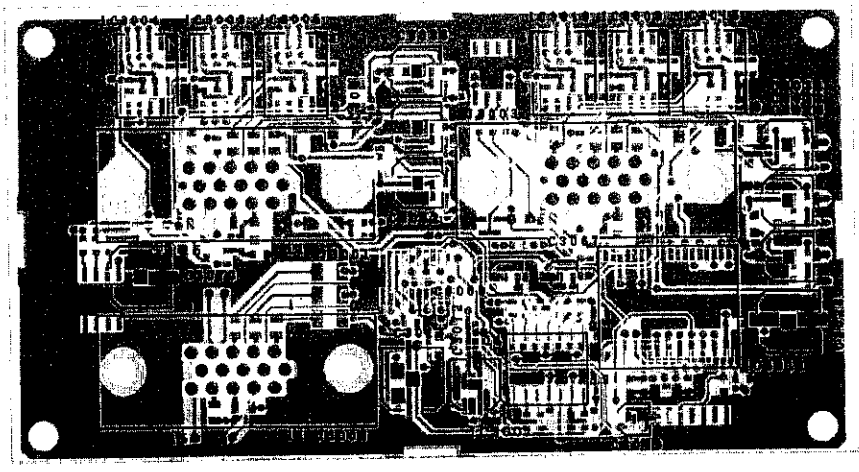
PC Terminal Unit (Wiring Side) /
PC-Anschlußeinheit (Leiterbahnseite)
PC插接电路装置印刷电路板（线路贴置侧）



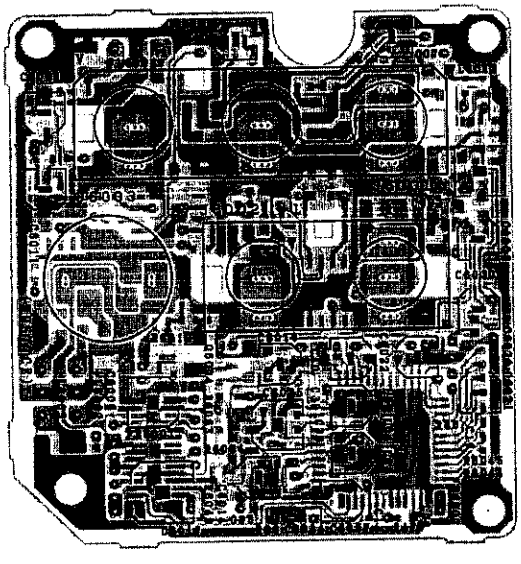
Video Board Unit (Wiring Side) /
Videokarteneinheit (Leiterbahnseite)
视频装置印刷电路板（线路贴置侧）



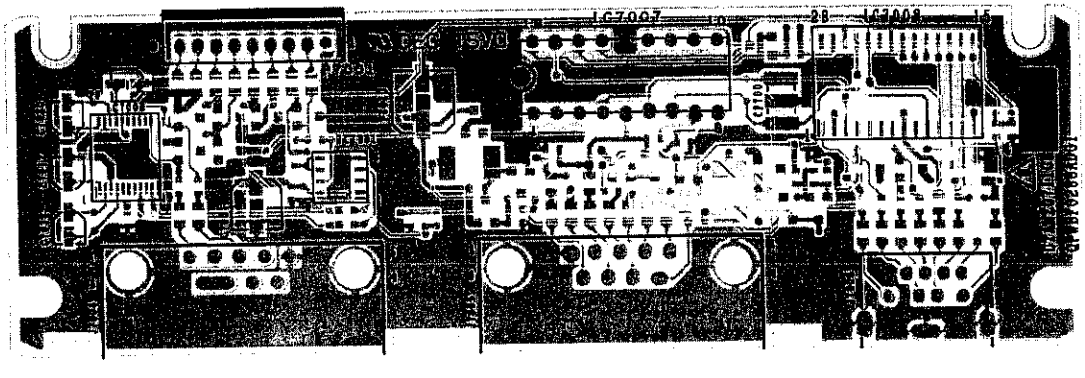
Computer Control Cable Unit (Wiring Side) /
Computer-Steuerungskabeleinheit (Leiterbahnseite)
电脑控制电缆装置印刷电路板（线路贴置侧）



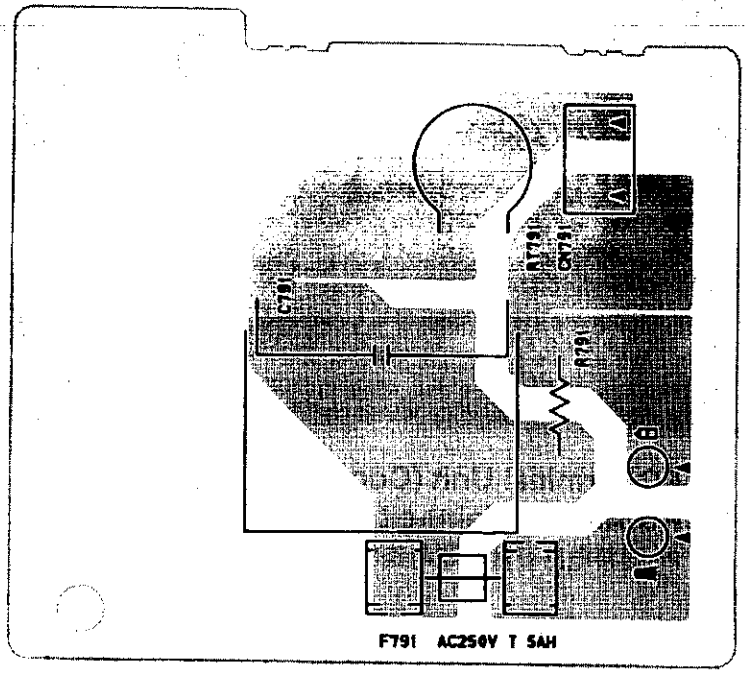
PC Terminal Unit (Component Side) /
PC-Anschlußeinheit (Bestückungsseite)
PC插接电路装置印刷电路板（部件装备侧）



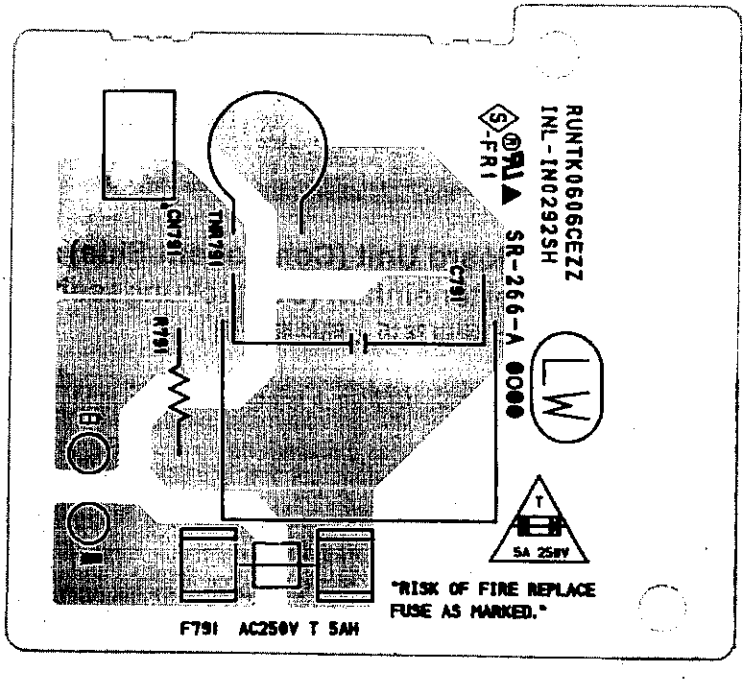
Video Board Unit (Component Side) /
Videokarteneinheit (Bestückungsseite)
视频装置印刷电路板（部件装备侧）



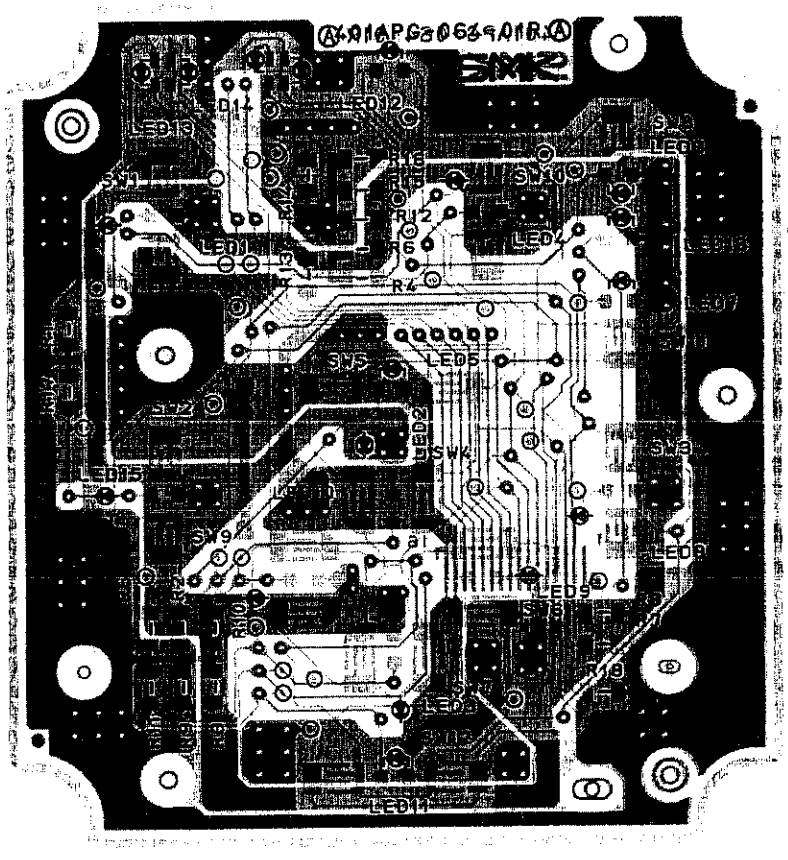
Computer Control Cable Unit (Component Side) /
Computer-Steuerungskabeleinheit (Bestückungsseite)
电脑控制电缆装置印刷电路板（部件装备侧）



AC-SW Unit (Wiring Side) /
Netzschaltereinheit (Leiterbahnseite)
交流开关装置印刷电路板（线路贴置侧）



AC-SW Unit (Component Side) /
Netzschaltereinheit (Bestückungsseite)
交流开关装置印刷电路板（部件装备侧）



Operation key Unit (Component Side) /
Bedienungstasteneinheit (Bestückungsseite)
操作键装置印刷电路板（部件装备侧）

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" in the Replacement Parts Lists.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER	2. REF. NO.
3. PART NO.	4. DESCRIPTION
5. CODE	6. QUANTITY

MARK ★: SPARE PARTS-DELIVERY SECTION

ERSATZTEILLISTE

AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenshaften sind in den Ersatzteil durch "⚠" gekenn-zeichnet.
Der Gebrauch von Ersatzteilen, die nicht deselben Sicherheits-eigenschaften haben wie die vom Hersteller empfohlenen ud in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

"WIE MAN ERSATSTEILE BESTELLT"

Damit Ihre Bestellung promt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

1. MODELL NR.	2. REF. NR.
3. ERSATZTEIL NR.	4. BESCHREIBUNG
5. KODE	6. QUANTITÄT

MARKIERUNG ★: ERSATZTEILE-LIEFERUNG

更换零件表

更换零件

本维修手册对具有特别安全要求的零件均用标记加以识别：
在此更换零件表中，具有特别安全要求的电路元件均用 ⚠ 标记，以便注意识别。更换零件时，为了用户的安全以及液晶投影机原有的工作性能，务请使用夏普规定零件。否则，可能有导致触电、火灾或其他不测事故发生的可能。

更换零件的订货方法

为了能迅速而确实地接受订货、以及正确无误地按时交货，在订货时请将下列各项明确告知。

1. 型号	2. 参考编号
3. 零件编号	4. 零件名称
5. 代号	6. 数量

附★记号为备用部件的交货部门

Ref. No.	Part No.	★	Description	Code

LCD PANELS

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

	RLCDP0089CEZZ	J	LCD Module Unit, Red	CT
	RLCDP0090CEZZ	J	LCD Module Unit, Green	CT
	RLCDP0091CEZZ	J	LCD Module Unit, Blue	CT

PRINTED WIRING BOARD ASSEMBLIES
(NOT REPLACEMENT ITEM)

MODEL XG-NV21SE

	DUNTK9746DE12	–	Signal Unit (For Europe)	—
	DUNTK9746DE14	–	Signal Unit (For Hong Kong, Australia and New Zealand)	
	DUNTK9747DE12	–	Signal Sub Unit (For Europe)	—
	DUNTK9747DE14	–	Signal Sub Unit (For Hong Kong, Australia) ans New Zealand)	
	DUNTK9983DE02	–	Output Unit (For Europe)	—
	DUNTK9983DE04	–	Output Unit (For Hong Kong, Australia ans New Zealand)	—
	DUNTK9984DE02	–	Output Sub Unit (For Europe)	—
	DUNTK9984DE04	–	Output Sub Unit (For Hong Kong, Australia) ans New Zealand)	—
	DUNTK9985DE02	–	Sound Out Unit (For Europe)	—
	DUNTK9985DE04	–	Sound Out Unit (For Hong Kong, Australia ans New Zealand)	—
	DUNTK9986DE02	–	R/C Receiver Unit (For Europe)	—
	DUNTK9986DE04	–	R/C Receiver Unit (For Hong Kong, Australia ans New Zealand)	—
	RUNTK0602CEZZ	–	Filter Unit	—
	RUNTK0606CEZZ	–	AC-SW Unit	—
	RUNTK0607CEZZ	–	Operation Key Unit	—
	CTANZ0709CE01	–	PC Terminal Unit	—
	CTANZ0710CE01	–	Video Board Unit	—
	CTANZ0711CE01	–	Computer Control Cable Unit	—
	CPCi-0025CE04	–	PC I/F Unit	—
	RDENC0289CEZZ	–	Power Unit	—
	RDENC0286CEZZ	J	Ballast Unit (Unit Replacement Item)	CE

Ref. No.	Part No.	★	Description	Code

PRINTED WIRING BOARD ASSEMBLIES
(NOT REPLACEMENT ITEM)

MODEL XG-NV21SM

DUNTK9746DE13	–	Signal Unit	—
DUNTK9747DE13	–	Signal Sub Unit	—
DUNTK9983DE03	–	Output Unit	—
DUNTK9984DE03	–	Output Sub Unit	—
DUNTK9985DE03	–	Sound Out Unit	—
DUNTK9986DE02	–	R/C Receiver Unit	—
RUNTK0602CEZZ	–	Filter Unit	—
RUNTK0606CEZZ	–	AC-SW Unit	—
RUNTK0607CEZZ	–	Operation Key Unit	—
CTANZ0709CE01	–	PC Terminal Unit	—
CTANZ0710CE01	–	Video Board Unit	—
CTANZ0711CE01	–	Computer Control Cable Unit	—
CPCi-0025CE04	–	PC I/F Unit	—
RDENC0289CEZZ	–	Power Unit	—
RDENC0286CEZZ	J	Ballast Unit (Unit Replacement Item)	CE

MODEL XG-NV21SA

DUNTK9746DE12	–	Signal Unit	—
DUNTK9747DE12	–	Signal Sub Unit	—
DUNTK9983DE02	–	Output Unit	—
DUNTK9984DE02	–	Output Sub Unit	—
DUNTK9985DE02	–	Sound Out Unit	—
DUNTK9986DE02	–	R/C Receiver Unit	—
RUNTK0602CEZZ	–	Filter Unit	—
RUNTK0606CEZZ	–	AC-SW Unit	—
RUNTK0607CEZZ	–	Operation Key Unit	—
CTANZ0709CE01	–	PC Terminal Unit	—
CTANZ0710CE01	–	Video Board Unit	—
CTANZ0711CE01	–	Computer Control Cable Unit	—
CPCi-0025CE04	–	PC I/F Unit	—
RDENC0289CEZZ	–	Power Unit	—
RDENC0286CEZZ	J	Ballast Unit (Unit Replacement Item)	CE

Ref. No.	Part No.	★	Description	Code

DUNTK9746DE12/13/14
SIGNAL UNIT

INTEGRATED CIRCUIT

IC401	VHiNJM2240M-1	J	NJM2240M	AG
IC402	VHiNJM2240M-1	J	NJM2240M	AG
IC404	VHi74LS153/-1	J	HD74LS153FP	AF
IC406	VHiBA7046F/-1	J	BA7046F	AF
IC417	VHiAD8013AR-1	J	AD8013AR-14	AV
IC418	VHiTC4W53U/-1	J	TC4W53FU	AF
IC602	VHiTHC4538T-1	J	TC74HC4538AFT	AL
IC603	VHiTHC4538T-1	J	TC74HC4538AFT	AL
IC604	VHi74LS153/-1	J	HD74LS153FP	AF
IC619	VHiSNHC153T-1	J	SN74HC153	AK
IC801	VHiTDA8854H-2	J	TDA8854H/N2	BD
IC803	VHiTDA4565/-1	J	TDA4565/V6	AN
IC805	VHiNJM2060V-1	J	NJM2060V	AF
IC806	VHiTC90A11F-1	J	TC90A11F	AZ
IC807	VHiM518221S-1	J	MSM518221-30JS	BA
IC808	VHiPST600DM-1	J	IC-PST600DMT	AE
IC811	VHiTA1226N/-1	J	TA1226N	AW
IC812	VHiLT1253CS-1	J	LT1253CS8	AT
IC814	VHiTA8814N/-1	J	TA8814N	AV
IC815	VHiLMC7101B-1	J	LMC7101BiM5	AH
IC816	VHiNJM2283V-1	J	NJM2283V	AG
IC1001	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC1002	VHiTC7S08U/-1	J	TC7S08FU	AE
IC1005	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC1006	VHiTC7S08U/-1	J	TC7S08FU	AE

TRANSISTORS

Q411	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q412	VS2SB1132Q/-1	J	2SB1132Q	AC
Q416	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q417	VS2SC2411KR-1	J	2SC2411KR	AC
Q418	VS2SC2411KR-1	J	2SC2411KR	AC
Q419	VS2SC2411KR-1	J	2SC2411KR	AC
Q601	VSDTC124EK/-1	J	DTC124EK	AB
Q804	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q805	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q806	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q808	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q809	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q810	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q814	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q815	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q816	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q817	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q819	VSDTC144EK/-1	J	DTC144EK	AB
Q823	VS2SC2411KR-1	J	2SC2411KR	AC
Q824	VS2SC2411KR-1	J	2SC2411KR	AC
Q825	VS2SC2411KR-1	J	2SC2411KR	AC
Q905	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q906	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q907	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q910	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q911	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q912	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q913	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q914	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q915	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q918	VSDTC114EK/-1	J	DTC114EK	AB

DIODES

D404	RH-EX0519CEZZ	J	Zener Diode	AB
D801	VHDMA152WA/-1	J	Diode	AA
D805	VHDDAN202K/-1	J	Diode	AB
D806	RH-EX0226CEZZ	J	Zener Diode	AB
D807	RH-EX0226CEZZ	J	Zener Diode	AB
D902	VHDDAN202K/-1	J	Diode	AB
D1004	VHDDAN202K/-1	J	Diode	AB
D1005	VHDDAN202K/-1	J	Diode	AB
D1006	RH-EX0226CEZZ	J	Zener Diode	AB
D1007	RH-EX0226CEZZ	J	Zener Diode	AB

DUNTK9746DE12/13/14
SIGNAL UNIT (Cotinued)

Ref. No.	Part No.	★	Description	Code
D1013	RH-EX0181TAZZ	J	Zener Diode	AC
D1014	RH-EX0181TAZZ	J	Zener Diode	AC
D1015	RH-EX0181TAZZ	J	Zener Diode	AC
D1017	RH-EX0181TAZZ	J	Zener Diode	AC
D1018	RH-EX0181TAZZ	J	Zener Diode	AC
D1019	RH-EX0181TAZZ	J	Zener Diode	AC
D1020	RH-EX0181TAZZ	J	Zener Diode	AC
D1021	RH-EX0181TAZZ	J	Zener Diode	AC
D1022	RH-EX0181TAZZ	J	Zener Diode	AC

PACKAGED CIRCUITS

X801	RCRSB0253CEZZ	J	Crystal	AL
X802	RCRSB0254CEZZ	J	Crystal	AL

COILS

L403	VP-1M100J1R6N	J	Peaking 10µH	AC
L405	VP-1M100J1R6N	J	Peaking 10µH	AC
L906	VP-1M330J4R2N	J	Peaking 33µH	AC
L907	VP-1M330J4R2N	J	Peaking 33µH	AC
L908	VP-1M220J2R9N	J	Peaking 22µH	AC
L909	VP-1M330J4R2N	J	Peaking 33µH	AC

CAPACITORS

C405	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C406	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C414	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C415	VCKYCY1HF223Z	J	0.022	50V	Ceramic	AB
C416	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C418	VCE9PF1CW226M	J	22	16V	Elect. (N.P)	AD
C419	VCE9PF1CW226M	J	22	16V	Elect. (N.P)	AD
C420	VCE9PF1CW226M	J	22	16V	Elect. (N.P)	AD
C421	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C422	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C423	VCEAPV1CW106M	J	10	16V	Electrolytic	AD
C424	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C425	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C430	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C431	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C432	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C437	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C441	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C442	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C443	VCKYCY1HF102Z	J	1000p	50V	Ceramic	AA
C447	VCCCCY1HH5R0C	J	5.0p	50V	Ceramic	AA
C448	VCEAPF1HW475M	J	4.7	50V	Electrolytic	AB
C450	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C451	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C452	VCKYCY1HF102Z	J	1000p	50V	Ceramic	AA
C453	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C454	VCCCCY1HH7R0D	J	7.0p	50V	Ceramic	AA
C455	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C456	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C458	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C459	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C460	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C472	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C485	VCEAPF1HW475M	J	4.7	50V	Electrolytic	AB
C486	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C487	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C601	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C602	VCFRED1HM472J	J	4700p	50V	Mylar	AD
C603	VCFRED1HM222J	J	2200p	50V	Mylar	AC
C606	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C607	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C608	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C609	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C610	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C611	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB
C612	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C613	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C623	VCCCCY1EH102J	J	1000p	25V	Ceramic	AB

Ref. No.	Part No.	★	Description	Code
C639	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C801	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C804	VCEAPF1CW106M	J	10 16V Electrolytic	AB
C805	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C806	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C810	VCCCCY1HH180J	J	18p 50V Ceramic	AA
C811	VCCCCY1HH180J	J	18p 50V Ceramic	AA
C812	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C814	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C815	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C817	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C818	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C819	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C822	VCCCCY1HH470J	J	47p 50V Ceramic	AA
C823	VCCCCY1HH470J	J	47p 50V Ceramic	AA
C824	VCCCCY1HH221J	J	220p 50V Ceramic	AA
C825	VCCCCY1HH221J	J	220p 50V Ceramic	AA
C826	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C827	VCE9PF1HW105M	J	1 50V Elect. (N.P)	AC
C828	VCE9PF1HW105M	J	1 50V Elect. (N.P)	AC
C829	VCEAPF1CW476M	J	47 16V Electrolytic	AC
C830	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C831	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C832	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C833	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C834	VCFRED1HM332J	J	3300p 50V Mylar	AD
C835	VCEAPF1CW107M	J	100 16V Electrolytic	AD
C836	VCKYTV1HF224Z	J	0.22 50V Ceramic	AC
C837	VCEAPF1CW107M	J	100 16V Electrolytic	AD
C838	VCKYTV1HF224Z	J	0.22 50V Ceramic	AC
C839	VCEAPF1HW225M	J	2.2 50V Electrolytic	AB
C840	VCFYEC1CM223J	J	0.022 16V Mylar	AC
C844	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C845	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C852	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C856	VCFYEC1CM274J	J	0.27 16V Mylar	AE
C857	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C860	VCCCCY1HH221J	J	220p 50V Ceramic	AA
C861	VCE9PF1CW106M	J	10 16V Elect. (N.P)	AC
C862	VCCCCY1HH151J	J	150p 50V Ceramic	AA
C863	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C864	VCE9PF1HW105M	J	1 50V Elect. (N.P)	AC
C865	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C867	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C868	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C869	VCKYCY1CF224Z	J	0.22 16V Ceramic	AA
C870	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C871	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C872	VCEAPF1HW106M	J	10 50V Electrolytic	AB
C873	VCFYEC1CM274J	J	0.27 16V Mylar	AE
C877	VCEAPV1CW106M	J	10 16V Electrolytic	AD
C878	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C879	VCEAPF1CW226M	J	22 16V Electrolytic	AB
C880	VCE9PF1CW226M	J	22 16V Elect. (N.P)	AD
C881	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C882	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C883	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C885	VCCCCY1HH470J	J	47p 50V Ceramic	AA
C886	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C887	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C888	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C891	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C892	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C893	VCEAPF1HW225M	J	2.2 50V Electrolytic	AB
C903	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C904	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C906	VCEAPF1HW105M	J	1 50V Electrolytic	AB
C907	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C908	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C909	VCKYCY1HB103K	J	0.01 50V Ceramic	AA
C910	VCCCCY1HH181J	J	180p 50V Ceramic	AA
C911	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C912	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C913	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C914	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA

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Ref. No.	Part No.	★	Description			Code
C915	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C916	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C917	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C918	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C919	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C920	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C921	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C923	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C924	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C925	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C926	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C927	VCCCCY1HH5R0C	J	5.0p	50V	Ceramic	AA
C930	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C931	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C932	VCKYCY1AF105Z	J	1	10V	Ceramic	AC
C933	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C934	VCCCCY1HH390J	J	39p	50V	Ceramic	AA
C935	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C936	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C937	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C938	VCEAPV1CW106M	J	10	16V	Electrolytic	AD
C939	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C940	VCEAPF1HW225M	J	2.2	50V	Electrolytic	AB
C941	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C942	VCEAPV1CW106M	J	10	16V	Electrolytic	AD
C943	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C944	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C945	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C946	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C948	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C949	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C950	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C951	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C954	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C955	VCEAPV1CW106M	J	10	16V	Electrolytic	AD
C956	VCEAPV1CW106M	J	10	16V	Electrolytic	AD
C957	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C958	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C959	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C960	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C961	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C962	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C963	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C964	VCFYEC1CM104J	J	0.1	16V	Mylar	AD
C965	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C966	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C967	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C968	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C970	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C973	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C974	VCCCCY1HH390J	J	39p	50V	Ceramic	AA
C1001	VCEAPV1CW476M	J	47	16V	Electrolytic	AD
C1002	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1005	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1006	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1009	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1012	VCEAPV0JW107M	J	100	6.3V	Electrolytic	AD

RESISTORS

R302	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R303	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R311	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R318	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R319	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R320	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R321	VRS-CY1JF105J	J	1M	1/16W	Metal Oxide	AA
R323	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R324	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R327	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R328	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R329	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R434	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R438	VRS-CY1JF474J	J	470k	1/16W	Metal Oxide	AA
R439	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R440	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R442	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R443	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R444	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R445	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R446	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R447	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R448	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R449	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R450	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R451	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R452	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R453	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R454	VRS-CY1JF750J	J	75	1/16W	Metal Oxide	AA
R455	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R456	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R457	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R458	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R460	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R461	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R462	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R463	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R464	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R465	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R466	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R467	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R468	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R470	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R472	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R477	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R478	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R479	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R480	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R481	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R482	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R483	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R484	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R485	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R486	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA
R487	VRS-CY1JF151J	J	150	1/16W	Metal Oxide	AA
R488	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R489	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R495	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R496	VRS-CY1JF361J	J	360	1/16W	Metal Oxide	AA
R497	VRS-CY1JF332F	J	3.3k	1/16W	Metal Oxide	AA
R503	VRS-CY1JF392F	J	3.9k	1/16W	Metal Oxide	AA
R505	VRS-CY1JF361J	J	360	1/16W	Metal Oxide	AA
R584	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R603	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R604	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R605	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R606	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R608	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R611	VRN-CY1JF133D	J	13k	1/16W	Metal Film	AB
R613	VRN-CY1JF752D	J	7.5k	1/16W	Metal Film	AA
R614	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R615	VRS-CY1JF182J	J	1.8k	1/16W	Metal Oxide	AA
R616	VRN-CY1JF682D	J	6.8k	1/16W	Metal Film	AB
R617	VRN-CY1JF103D	J	10k	1/16W	Metal Film	AA
R619	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R620	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R628	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R629	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R630	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R631	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R698	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R699	VRS-CY1JF330J	J	33	1/16W	Metal Oxide	AA
R801	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R806	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R807	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R808	VRS-CY1JF561J	J	560	1/16W	Metal Oxide	AA
R809	VRS-CY1JF331J	J	330	1/16W	Metal Oxide	AA

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Ref. No.	Part No.	★	Description	Code
R810	VRS-CY1JF750J	J	75 1/16W Metal Oxide	AA
R811	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R812	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA
R815	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R816	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R817	VRS-TX2HF4R7J	J	4.7 1/2W Metal Oxide	AB
R819	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R820	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R821	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R822	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R823	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R832	VRS-TX2HF4R7J	J	4.7 1/2W Metal Oxide	AB
R835	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA
R836	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R837	VRS-CY1JF564J	J	560k 1/16W Metal Oxide	AA
R838	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R839	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R840	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R841	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R842	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R843	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R844	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R845	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R846	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R847	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R848	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R849	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R850	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R851	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R852	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R853	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R855	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R856	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R857	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R858	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R859	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R860	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R862	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R863	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R864	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R865	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R866	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R867	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R868	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R869	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R870	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R871	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R872	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R873	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R874	VRS-CY1JF683J	J	68k 1/16W Metal Oxide	AA
R875	VRS-CY1JF224J	J	220k 1/16W Metal Oxide	AA
R876	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R877	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R878	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R879	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R880	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R886	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R887	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R891	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R892	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R893	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R894	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R895	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R896	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R897	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R898	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R899	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R903	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R907	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R908	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R909	VRN-CY1JF102D	J	1k 1/16W 0. Metal Film	AB
R910	VRS-CY1JF122J	J	1.2k 1/16W Metal Oxide	AA
R911	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R912	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R913	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R914	VRS-CY1JF821J	J	820 1/16W Metal Oxide	AA
R915	VRN-CY1JF332D	J	3.3k 1/16W Metal Film	AA
R916	VRN-CY1JF332D	J	3.3k 1/16W Metal Film	AA
R917	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R918	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R919	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R920	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R922	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R923	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R924	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R925	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R926	VRS-CY1JF823J	J	82k 1/16W Metal Oxide	AA
R927	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R928	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R929	VRS-CY1JF561J	J	560 1/16W Metal Oxide	AA
R930	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R931	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R932	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R933	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R934	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R935	VRS-TV1JD102J	J	1k 1/16W Metal Oxide	AA
R936	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R937	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R938	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R939	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R940	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R941	VRS-CY1JF274J	J	270k 1/16W Metal Oxide	AA
R942	VRS-CY1JF274J	J	270k 1/16W Metal Oxide	AA
R943	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R944	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R945	VRS-CY1JF472F	J	4.7k 1/16W Metal Oxide	AA
R946	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R947	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R948	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R949	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R950	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R951	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R952	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R953	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R954	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R955	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R956	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
R957	VRS-CY1JF154J	J	150k 1/16W Metal Oxide	AA
R958	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R959	VRS-TV1JD222J	J	2.2k 1/16W Metal Oxide	AA
R964	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R973	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R974	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R975	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R976	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R980	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R981	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R982	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R983	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R990	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R991	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R999	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R1001	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1002	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R1004	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1005	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R1006	VRS-TX2HF5R6J	J	5.6 1/2W Metal Oxide	AA
R1007	VRN-CY1JF562D	J	5.6k 1/16W Metal Film	AB
R1008	VRN-CY1JF102D	J	1k 1/16W Metal Film	AB
R1009	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1012	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1013	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R1014	VRS-TX2HF000J	J	0 1/2W Metal Oxide	AA
R1017	VRS-TQ2BD000J	J	0 1/8W Metal Oxide	AA
R1018	VRS-TQ2BD000J	J	0 1/8W Metal Oxide	AA
R1802	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

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SIGNAL UNIT (Cotinued)

R1803	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide		AA
R1804	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide		AA
R1805	VRS-CY1JF102F	J	1k	1/16W	Metal Oxide		AA
R1806	VRS-CY1JF821F	J	820	1/16W	Metal Oxide		AA
R1807	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide		AA
R1808	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide		AA
R1809	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide		AA
R1810	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide		AA
R1811	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide		AA
R1812	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide		AA
R1813	VRS-CY1JF101J	J	100	1/16W	Metal Oxide		AA
R1819	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide		AA
R1820	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide		AA
R1822	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide		AA
R1823	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide		AA
R1824	VRS-CY1JF821J	J	820	1/16W	Metal Oxide		AA

MISCELLANEOUS PARTS

FB301	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB302	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB303	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB304	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB305	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB306	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB307	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB308	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB309	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB401	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB403	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB404	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB405	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB408	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB901	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB902	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB903	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB904	RBLN-0065CEZZ	J	Ferrite Bead	AB
FB1001	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1002	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1003	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1004	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1005	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1006	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1007	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1008	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1009	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1010	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1011	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1012	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1013	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1014	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB1015	RBLN-0062CEZZ	J	Ferrite Bead	AC
J301	QJAKJ0063CEZZ	J	Jack, PC Input 1	AF
J302	QJAKJ0063CEZZ	J	Jack, PC Input 2	AF
J303	QJAKJ0063CEZZ	J	Jack, Audio Out	AF
J1002	QJAKJ0063CEZZ	J	Jack, Wired R/C	AF
P401	QPLGZ2044CEZZ	J	Plug, 20-pin (TN)	AG
P402	QPLGZ3044CEZZ	J	Plug, 30-pin (VS)	AH
P801	QPLGN0764TAZZ	J	Plug, 7-pin	AD
P1501	QPLGZ2828CEZZ	J	Plug, 28-pin (CA)	AF
P1502	QPLGZ2828CEZZ	J	Plug, 28-pin (CB)	AF
SC301	QSOCZ3043CEZZ	J	Socket, 30-pin (CD)	AG
SC401	QSOCN0436FJZZ	J	Socket, 4-pin	AF
SC402	QSOCN0436FJZZ	J	Socket, 4-pin	AF
SC403	QSOCN0436FJZZ	J	Socket, 4-pin	AF
SC1001	QSOCZ1357CEZZ	J	Socket, 13-pin	AL
SC1002	QSOCZ1357CEZZ	J	Socket, 13-pin	AL
TP902	QLUGP0111TAFW	J	Lug, Test Point	AA

Ref. No.	Part No.	★	Description	Code

DUNTK9747DE12/13/14
SIGNAL SUB UNIT

INTEGRATED CIRCUIT

IC305	VHiNJM2245M-1	J	NJM2245M	AF
IC306	VHiNJM2245M-1	J	NJM2245M	AF

TRANSISTORS

Q301	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q302	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q303	VSDTC144EK/-1	J	DTC144EK	AB

DIODES

D301	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D303	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D304	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D306	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D308	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D310	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D311	RH-EX0226CEZZ	J	Zener Diode, 12V	AB
D328	RH-EX0226CEZZ	J	Zener Diode, 12V	AB

CAPACITORS

C301	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C307	VCE9PF1CW475M	J	4.7	16V	Elect.(N.P)	AC
C308	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C309	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AC
C314	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C315	VCE9PF1CW475M	J	4.7	16V	Elect.(N.P)	AC
C317	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C318	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C327	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C328	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C329	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C333	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C334	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C335	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C336	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA

RESISTORS

R301	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R304	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R305	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R307	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R308	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R309	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R310	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R313	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R315	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R316	VRS-CY1JF102J	J	1.0k	1/16W	Metal Oxide	AA
R317	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R325	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R330	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R331	VRS-TV1JD000J	J	0	1/16W	Metal Oxide	AA
R332	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R333	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R334	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R335	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA

MISCELLANEOUS PART

P301	QPLGZ3044CEZZ	J	Plug, 30-pin	AH

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OUTPUT UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC1004	RH-iX2204CEZZ	J	PQ12TZ11	AG
IC1102	VHiLT1253CS-1	J	LT1253CS8	AT
IC1103	VHiNJM2904V-1	J	NJM2904V	AF
IC1104	VHiTC4053BT-1	J	TC4053BFT	AG
IC1105	VHiTC4053BT-1	J	TC4053BFT	AG
IC1106	RH-iX3116CEN2	J	XC9536-7PC44C	AY
IC1109	VHiLM1204V/-1	J	LM1204V	AY
IC1111	VHiCXA2504N-1	J	CXA2504N	AZ
IC1113	VHiLM6182iM-1	J	LM6182IM	AT
IC1117	VHiHCT541AF-1	J	TC74HCT541AF	AG
IC1118	VHiLT1253CS-1	J	LT1253CS8	AT
IC1202	VHiLT1253CS-1	J	LT1253CS8	AT
IC1203	VHiNJM2904V-1	J	NJM2904V	AF
IC1204	VHiTC4053BT-1	J	TC4053BFT	AG
IC1205	VHiTC4053BT-1	J	TC4053BFT	AG
IC1206	RH-iX3116CEN2	J	XC9536-7PC44C	AY
IC1209	VHiLM1204V/-1	J	LM1204V	AY
IC1211	VHiCXA2504N-1	J	CXA2504N	AZ
IC1213	VHiLM6182iM-1	J	LM6182IM	AT
IC1217	VHiHCT541AF-1	J	TC74HCT541AF	AG
IC1218	VHiLT1253CS-1	J	LT1253CS8	AT
IC1302	VHiLT1253CS-1	J	LT1253CS8	AT
IC1303	VHiNJM2904V-1	J	NJM2904V	AF
IC1304	VHiTC4053BT-1	J	TC4053BFT	AG
IC1305	VHiTC4053BT-1	J	TC4053BFT	AG
IC1306	RH-iX3116CEN2	J	XC9536-7PC44C	AY
IC1309	VHiLM1204V/-1	J	LM1204V	AY
IC1311	VHiCXA2504N-1	J	CXA2504N	AZ
IC1313	VHiLM6182iM-1	J	LM6182IM	AT
IC1314	VHiNJM431E/-1	J	NJM431E-TE1	AF
IC1317	VHiHCT541AF-1	J	TC74HCT541AF	AG
IC1318	VHiLT1253CS-1	J	LT1253CS8	AT
IC1401	VHiNJM2060V-1	J	NJM2060V	AF
IC1402	VHiTHC221AF-1	J	TC74HC221AF	AG
IC1403	VHiLM4040C/-1	J	LM4040CiM3X4.1	AM
IC1404	VHiM62352GP-1	J	M62352GP	AQ
IC1405	VHiM62352GP-1	J	M62352GP	AQ
IC1406	VHiHCT541AF-1	J	TC74HCT541AF	AG
IC1408	VHiHCT541AF-1	J	TC74HCT541AF	AG
IC1501	VHiAD8013AR-1	J	AD8013AR-14	AV
IC1502	VHiNJM2902V-1	J	NJM2902V	AD
IC1503	VHiNJM431E/-1	J	NJM431E-TE1	AF
IC1504	VHiM40C568H-1	J	MB40C568HPFv-G	AQ
IC1505	VHiM40C568H-1	J	MB40C568HPFv-G	AQ
IC1506	VHiM40C568H-1	J	MB40C568HPFv-G	AQ
IC1507	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC5001	RH-iX2961CEZZ	J	HD641180XF6	BB
IC5002	RH-iX2967CEZZ	J	TE7752	AW
IC5003	VHiM62352GP-1	J	M62352GP	AQ
IC5004	VHiM51957BF-1	J	M51957BFP-600C	AE
IC5005	VHiSNHC32T/-1	J	SN74HC32PW	AG
IC5006	VHiSNHC00T/-1	J	SN74HC00PW	AG
IC5008	RH-iX2963CEZZ	J	X24645S8T2	AX
IC5015	VHiTC7W14U/-1	J	TC7W14FU	AG
IC5016	VHiTC7W74U/-1	J	TC7W74FU	AD
IC5019	VHiTCLCX245-2	J	TC74LCX245FS	AH
IC5020	RH-iX3090CEZZ	J	LH28F040SUTDZ4	BC
IC5021	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC5025	VHiTC7W04U/-1	J	TC7W04FU	AD
IC5026	VHiTHC4538T-1	J	TC74HC4538AFT	AL
IC5027	VHiSNHC08T/-1	J	SN74HC08PW	AG
IC5028	VHiSNHC32T/-1	J	SN74HC32PW	AG
IC5029	VHiTC7W04U/-1	J	TC7W04FU	AD
IC5030	VHiTC7W08U/-1	J	TC7W08FU	AE
IC5031	VHiTC7W32U/-1	J	TC7W32FU	AD
IC5502	VHiPQ05TZ11-1	J	PQ05TZ11	AH
IC5513	VHiPQ20VZ11-1	J	PQ20VZ11	AH

TRANSISTORS

Ref. No.	Part No.	★	Description	Code
Q1105	VS2SA1036KR-1	J	2SA1036KR	AC
Q1106	VS2SC2411KR-1	J	2SC2411KR	AC
Q1109	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1110	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1111	VS2SA1036KR-1	J	2SA1036KR	AC
Q1112	VS2SC2411KR-1	J	2SC2411KR	AC
Q1113	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1114	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1115	VS2SA1462//-1	J	2SA1462	AC
Q1116	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1117	VS2SA1462//-1	J	2SA1462	AC
Q1118	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1205	VS2SA1036KR-1	J	2SA1036KR	AC
Q1206	VS2SC2411KR-1	J	2SC2411KR	AC
Q1209	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1210	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1211	VS2SA1036KR-1	J	2SA1036KR	AC
Q1212	VS2SC2411KR-1	J	2SC2411KR	AC
Q1213	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1214	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1215	VS2SA1462//-1	J	2SA1462	AC
Q1216	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1217	VS2SA1462//-1	J	2SA1462	AC
Q1218	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1305	VS2SA1036KR-1	J	2SA1036KR	AC
Q1306	VS2SC2411KR-1	J	2SC2411KR	AC
Q1309	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1310	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1311	VS2SA1036KR-1	J	2SA1036KR	AC
Q1312	VS2SC2411KR-1	J	2SC2411KR	AC
Q1313	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1314	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1315	VS2SA1462//-1	J	2SA1462	AC
Q1316	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1317	VS2SA1462//-1	J	2SA1462	AC
Q1318	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1401	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1501	VS2SC2735//-1	J	2SC2735	AB
Q1502	VS2SC2735//-1	J	2SC2735	AB
Q1503	VS2SC2735//-1	J	2SC2735	AB
Q1504	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1505	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1506	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1507	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1508	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1510	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q1511	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q1512	VS2SD1664R/-1	J	2SD1664R	AC
Q5006	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q5010	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q5011	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q5012	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q5013	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q5501	VS2SD1664R/-1	J	2SD1664R	AC
Q5502	VS2SD1664R/-1	J	2SD1664R	AC

DIODES

Ref. No.	Part No.	★	Description	Code
D1003	VHDDAN202K/-1	J	Diode	AB
D1101	VHDDAN202K/-1	J	Diode	AB
D1105	VHDDAN202K/-1	J	Diode	AB
D1201	VHDDAN202K/-1	J	Diode	AB
D1205	VHDDAN202K/-1	J	Diode	AB
D1301	VHDDAN202K/-1	J	Diode	AB
D1306	VHDDAN202K/-1	J	Diode	AB
D1501	VHDDAN202K/-1	J	Diode	AB
D1502	VHDDAN202K/-1	J	Diode	AB
D5019	VHDDAN202K/-1	J	Diode	AB
D5020	VHDDAN202K/-1	J	Diode	AB
D5021	VHDDAN202K/-1	J	Diode	AB
D5022	VHDDAN202K/-1	J	Diode	AB
D5502	VHDDAN202K/-1	J	Diode	AB
D5506	VHDDAN202K/-1	J	Diode	AB
D5507	VHDDAN202K/-1	J	Diode	AB
D5509	VHDDAN202K/-1	J	Diode	AB
D5510	VHDDAN202K/-1	J	Diode	AB
D5511	VHDDAN202K/-1	J	Diode	AB

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OUTPUT UNIT (Cotinued)

PACKAGED CIRCUIT

Ref. No.	Part No.	★	Description	Code
X5001	RCRSZ0054CEZZ	J	Crystal	AH

COILS

Ref. No.	Part No.	★	Description	Code
L1101	VP-1M100J1R6N	J	Peaking 10µH	AC
L1201	VP-1M100J1R6N	J	Peaking 10µH	AC
L1301	VP-1M100J1R6N	J	Peaking 10µH	AC

CAPACITORS

Ref. No.	Part No.	★				Code
C1010	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1013	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1101	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C1102	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C1103	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C1112	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1113	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1114	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1115	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1116	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1117	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1118	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1119	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1120	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1121	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1122	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1125	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1126	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1127	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1128	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1133	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1134	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1135	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1136	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1141	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1142	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1143	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1144	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1145	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1146	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1150	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1151	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1157	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C1158	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1160	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1161	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1162	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1163	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1164	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1165	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1166	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1167	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1168	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1169	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1170	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1171	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1172	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1173	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1174	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1175	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1176	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1177	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1178	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1179	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1180	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1181	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1182	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1183	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1184	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1185	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1186	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1187	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1188	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1189	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1190	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1191	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1192	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1193	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1194	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1195	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1196	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1197	VCEAPF1AW476M	J	47	10V	Electrolytic	AB
C1201	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C1202	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C1203	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C1212	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1213	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1214	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1215	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1216	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1217	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1218	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1219	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1220	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1221	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1222	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1225	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1226	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1227	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1228	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1233	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1234	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1235	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1236	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1241	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1242	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1243	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1244	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1245	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1248	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1250	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1251	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1257	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C1258	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1260	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1261	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1262	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1263	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1264	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1265	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1266	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1267	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1268	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1269	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1270	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1271	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1272	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1273	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1274	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1275	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1276	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1277	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1278	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1279	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1280	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1281	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1282	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1283	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1284	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1285	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1286	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1287	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1288	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1289	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1290	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1291	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1292	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1293	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1294	VCEAPF1CW476M	J	47	16V	Electrolytic	AC

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Ref. No.	Part No.	★	Description			Code
C1295	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1296	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1297	VCEAPF1AW476M	J	47	10V	Electrolytic	AB
C1301	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C1302	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C1303	VCCCCY1HH120J	J	12p	50V	Ceramic	AA
C1312	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1313	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1314	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1315	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1316	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1317	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1318	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1319	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1320	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1321	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1322	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1325	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1326	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1327	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1328	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1333	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1334	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1335	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1336	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1341	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1342	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1343	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1344	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1345	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1346	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1350	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1351	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1357	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C1358	VCKYTV1EF104Z	J	0.1	25V	Ceramic	AB
C1360	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1361	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1362	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1363	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1364	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1365	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1366	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1367	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1368	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1369	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1370	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1371	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1372	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1373	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1374	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1375	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1376	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1377	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1378	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1379	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1380	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1381	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1382	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1383	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1384	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1385	VCKYCY1EB223K	J	0.022	25V	Ceramic	AA
C1386	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1387	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1388	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1389	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1390	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1391	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1392	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C1393	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1394	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1395	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1396	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C1397	VCEAPF1AW476M	J	47	10V	Electrolytic	AB
C1401	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1402	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1403	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C1404	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1405	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1406	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1407	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1408	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1409	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1410	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1411	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1412	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C1413	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C1414	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1415	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1451	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1454	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1455	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1501	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1502	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C1503	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1504	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1505	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C1506	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1507	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1508	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1509	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1510	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1511	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1512	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1513	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1514	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1515	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1516	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1517	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1518	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1519	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1520	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1521	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1522	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1523	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1524	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1525	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1526	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1527	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1528	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1529	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1530	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1531	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1532	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1533	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1535	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1540	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1541	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C1542	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C2107	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2108	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2109	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2110	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2111	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2112	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2174	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C2175	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C2176	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2177	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2178	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2179	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2207	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2208	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2209	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2210	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2211	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2212	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2274	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C2275	VCCCCY1HH560J	J	56p	50V	Ceramic	AA

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Ref. No.	Part No.	★	Description			Code
C2276	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2277	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2278	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2279	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2307	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2308	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2309	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2310	VCCCCY1HH150J	J	15p	50V	Ceramic	AA
C2311	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2312	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2374	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C2375	VCCCCY1HH560J	J	56p	50V	Ceramic	AA
C2376	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C2377	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2378	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C2379	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C5002	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5003	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5004	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5005	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C5006	VCCCCY1HH100D	J	10p	50V	Ceramic	AA
C5007	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5008	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5010	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5011	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5012	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5013	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5014	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5015	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C5016	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C5017	VCCCCY1HH101J	J	100p	50V	Ceramic	AA
C5018	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5019	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5026	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C5028	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C5033	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C5041	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5042	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5043	VCEAPF1HW105M	J	1.0	50V	Electrolytic	AB
C5044	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5054	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C5056	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C5059	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5060	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C5061	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C5062	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C5063	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C5064	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5065	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5066	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5067	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C5163	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C5164	VCCCCY1HH221J	J	220p	50V	Ceramic	AA
C5165	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C5505	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5506	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C5507	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C5521	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C5522	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C5524	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C5525	VCEAPF1EW226M	J	22	25V	Electrolytic	AB
C5526	VCEAPF1EW226M	J	22	25V	Electrolytic	AB
C5562	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C5573	VCEAPF1CW107M	J	100	16V	Electrolytic	AD

RESISTORS

R1003	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1015	VRS-TW2ED1R0J	J	1	1/4W	Metal Oxide	AB
R1016	VRS-TW2ED1R0J	J	1	1/4W	Metal Oxide	AB
R1101	VRS-CY1JF181J	J	180	1/16W	Metal Oxide	AA
R1102	VRS-CY1JF181J	J	180	1/16W	Metal Oxide	AA
R1103	VRS-CY1JF181J	J	180	1/16W	Metal Oxide	AA
R1108	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1109	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1110	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1111	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1112	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1113	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1114	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R1116	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1117	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1126	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1127	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1128	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1129	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1131	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1133	VRS-CY1JF3R3J	J	3	1/16W	Metal Oxide	AA
R1134	VRS-CY1JF3R3J	J	3	1/16W	Metal Oxide	AA
R1135	VRN-CY1JF332D	J	3.3k	1/16W	Metal Film	AA
R1136	VRN-CY1JF332D	J	3.3k	1/16W	Metal Film	AA
R1137	VRN-CY1JF332D	J	3.3k	1/16W	Metal Film	AA
R1138	VRS-CY1JF102F	J	1k	1/16W	Metal Oxide	AA
R1139	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1140	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1141	VRN-TV1JD102B	J	1k	1/16W	Metal Film	AD
R1142	VRN-TV1JD102B	J	1k	1/16W	Metal Film	AD
R1143	VRN-TV1JD102B	J	1k	1/16W	Metal Film	AD
R1144	VRN-TV1JD102B	J	1k	1/16W	Metal Film	AD
R1145	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1146	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1172	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1173	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R1174	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1175	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1176	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R1177	VRS-CY1JF3R3J	J	3.3	1/16W	Metal Oxide	AA
R1179	VRS-CY1JF3R3J	J	3.3	1/16W	Metal Oxide	AA
R1180	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1182	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1183	VRS-CY1JF3R3J	J	3.3	1/16W	Metal Oxide	AA
R1184	VRS-CY1JF3R3J	J	3.3	1/16W	Metal Oxide	AA
R1185	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R1186	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1196	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1197	VRS-CY1JF272J	J	2.7k	1/16W	Metal Oxide	AA
R1199	VRS-CY1JF681J	J	680	1/16W	Metal Oxide	AA
R1201	VRS-CY1JF181J	J	180	1/16W	Metal Oxide	AA
R1202	VRS-CY1JF181J	J	180	1/16W	Metal Oxide	AA
R1203	VRS-CY1JF181J	J	180	1/16W	Metal Oxide	AA
R1208	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1209	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1210	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1211	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1212	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1213	VRS-CY1JF394J	J	390k	1/16W	Metal Oxide	AA
R1214	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R1216	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R1217	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1226	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1227	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1228	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1229	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R1231	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1233	VRS-CY1JF3R3J	J	3.3	1/16W	Metal Oxide	AA
R1234	VRS-CY1JF3R3J	J	3.3	1/16W	Metal Oxide	AA
R1235	VRN-CY1JF332D	J	3.3k	1/16W	Metal Film	AA
R1236	VRN-CY1JF332D	J	3.3k	1/16W	Metal Film	AA
R1237	VRN-CY1JF332D	J	3.3k	1/16W	Metal Film	AA
R1238	VRS-CY1JF102F	J	1k	1/16W	Metal Oxide	AA
R1239	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1240	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1241	VRN-TV1JD102B	J	1k	1/16W	Metal Film	AD
R1242	VRN-TV1JD102B	J	1k	1/16W	Metal Film	AD
R1243	VRN-TV1JD102B	J	1k	1/16W	Metal Film	AD
R1244	VRN-TV1JD102B	J	1k	1/16W	Metal Film	AD
R1245	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1246	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA
R1272	VRS-CY1JF332J	J	3.3k	1/16W	Metal Oxide	AA

DUNTK9983DE02/03/04
OUTPUT UNIT (Cotinued)

Ref. No.	Part No.	★	Description	Code
R1273	VRS-CY1JF682J	J 6.8k 1/16W	Metal Oxide	AA
R1274	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1275	VRS-CY1JF332J	J 3.3k 1/16W	Metal Oxide	AA
R1276	VRS-CY1JF682J	J 6.8k 1/16W	Metal Oxide	AA
R1277	VRS-CY1JF3R3J	J 3.3 1/16W	Metal Oxide	AA
R1279	VRS-CY1JF3R3J	J 3.3 1/16W	Metal Oxide	AA
R1280	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1282	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1283	VRS-CY1JF3R3J	J 3.3 1/16W	Metal Oxide	AA
R1284	VRS-CY1JF3R3J	J 3.3 1/16W	Metal Oxide	AA
R1285	VRS-CY1JF122J	J 1.2k 1/16W	Metal Oxide	AA
R1286	VRS-CY1JF100J	J 10 1/16W	Metal Oxide	AA
R1296	VRS-CY1JF103J	J 10k 1/16W	Metal Oxide	AA
R1297	VRS-CY1JF272J	J 2.7k 1/16W	Metal Oxide	AA
R1299	VRS-CY1JF681J	J 680 1/16W	Metal Oxide	AA
R1301	VRS-CY1JF181J	J 180 1/16W	Metal Oxide	AA
R1302	VRS-CY1JF181J	J 180 1/16W	Metal Oxide	AA
R1303	VRS-CY1JF181J	J 180 1/16W	Metal Oxide	AA
R1308	VRS-CY1JF394J	J 390k 1/16W	Metal Oxide	AA
R1309	VRS-CY1JF394J	J 390k 1/16W	Metal Oxide	AA
R1310	VRS-CY1JF394J	J 390k 1/16W	Metal Oxide	AA
R1311	VRS-CY1JF394J	J 390k 1/16W	Metal Oxide	AA
R1312	VRS-CY1JF394J	J 390k 1/16W	Metal Oxide	AA
R1313	VRS-CY1JF394J	J 390k 1/16W	Metal Oxide	AA
R1314	VRS-CY1JF473J	J 47k 1/16W	Metal Oxide	AA
R1316	VRS-CY1JF223J	J 22k 1/16W	Metal Oxide	AA
R1317	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1326	VRS-CY1JF100J	J 10 1/16W	Metal Oxide	AA
R1327	VRS-CY1JF100J	J 10 1/16W	Metal Oxide	AA
R1328	VRS-CY1JF100J	J 10 1/16W	Metal Oxide	AA
R1329	VRS-CY1JF100J	J 10 1/16W	Metal Oxide	AA
R1331	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1333	VRS-CY1JF3R3J	J 3.3 1/16W	Metal Oxide	AA
R1334	VRS-CY1JF3R3J	J 3.3 1/16W	Metal Oxide	AA
R1335	VRN-CY1JF332D	J 3.3k 1/16W	Metal Film	AA
R1336	VRN-CY1JF332D	J 3.3k 1/16W	Metal Film	AA
R1337	VRN-CY1JF332D	J 3.3k 1/16W	Metal Film	AA
R1338	VRS-CY1JF102F	J 1k 1/16W	Metal Oxide	AA
R1339	VRS-CY1JF332J	J 3.3k 1/16W	Metal Oxide	AA
R1340	VRS-CY1JF332J	J 3.3k 1/16W	Metal Oxide	AA
R1341	VRN-TV1JD102B	J 1k 1/16W	Metal Film	AD
R1342	VRN-TV1JD102B	J 1k 1/16W	Metal Film	AD
R1343	VRN-TV1JD102B	J 1k 1/16W	Metal Film	AD
R1344	VRN-TV1JD102B	J 1k 1/16W	Metal Film	AD
R1345	VRS-CY1JF332J	J 3.3k 1/16W	Metal Oxide	AA
R1346	VRS-CY1JF332J	J 3.3k 1/16W	Metal Oxide	AA
R1373	VRS-CY1JF682J	J 6.8k 1/16W	Metal Oxide	AA
R1374	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1375	VRS-CY1JF332J	J 3.3k 1/16W	Metal Oxide	AA
R1376	VRS-CY1JF682J	J 6.8k 1/16W	Metal Oxide	AA
R1377	VRS-CY1JF3R3J	J 3.3 1/16W	Metal Oxide	AA
R1379	VRS-CY1JF3R3J	J 3.3 1/16W	Metal Oxide	AA
R1380	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1382	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1383	VRS-CY1JF3R3J	J 3.3 1/16W	Metal Oxide	AA
R1384	VRS-CY1JF3R3J	J 3.3 1/16W	Metal Oxide	AA
R1385	VRS-CY1JF122J	J 1.2k 1/16W	Metal Oxide	AA
R1386	VRS-CY1JF100J	J 10 1/16W	Metal Oxide	AA
R1388	VRS-CY1JF561J	J 560 1/16W	Metal Oxide	AA
R1392	VRS-CY1JF000J	J 0 1/16W	Metal Oxide	AA
R1396	VRS-CY1JF103J	J 10k 1/16W	Metal Oxide	AA
R1397	VRS-CY1JF272J	J 2.7k 1/16W	Metal Oxide	AA
R1399	VRS-CY1JF681J	J 680 1/16W	Metal Oxide	AA
R1401	VRS-CY1JF391F	J 390 1/16W	Metal Oxide	AA
R1402	VRS-CY1JF182F	J 1.8k 1/16W	Metal Oxide	AA
R1403	VRS-CY1JF103F	J 10k 1/16W	Metal Oxide	AA
R1404	VRS-CY1JF103F	J 10k 1/16W	Metal Oxide	AA
R1405	VRS-CY1JF123F	J 12k 1/16W	Metal Oxide	AA
R1406	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1407	VRS-CY1JF222J	J 2.2k 1/16W	Metal Oxide	AA
R1408	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1409	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1410	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1411	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1412	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1413	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1414	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1432	VRS-CY1JF100J	J 10 1/16W	Metal Oxide	AA
R1433	VRS-CY1JF100J	J 10 1/16W	Metal Oxide	AA
R1435	VRS-CY1JF100J	J 10 1/16W	Metal Oxide	AA
R1436	VRS-CY1JF100J	J 10 1/16W	Metal Oxide	AA
R1463	VRS-CY1JF100J	J 10 1/16W	Metal Oxide	AA
R1464	VRS-CY1JF682J	J 6.8k 1/16W	Metal Oxide	AA
R1465	VRS-CY1JF103J	J 10k 1/16W	Metal Oxide	AA
R1466	VRS-CY1JF103J	J 10k 1/16W	Metal Oxide	AA
R1467	VRS-CY1JF103J	J 10k 1/16W	Metal Oxide	AA
R1468	VRS-CY1JF102J	J 1k 1/16W	Metal Oxide	AA
R1481	VRS-CY1JF000J	J 0 1/16W	Metal Oxide	AA
R1487	VRS-CY1JF472J	J 4.7k 1/16W	Metal Oxide	AA
R1488	VRS-CY1JF000J	J 0 1/16W	Metal Oxide	AA
R1489	VRS-CY1JF820F	J 82 1/16W	Metal Oxide	AA
R1491	VRS-CY1JF472J	J 4.7k 1/16W	Metal Oxide	AA
R1501	VRS-CY1JF102J	J 1k 1/16W	Metal Oxide	AA
R1502	VRS-CY1JF102J	J 1k 1/16W	Metal Oxide	AA
R1503	VRS-CY1JF221J	J 220 1/16W	Metal Oxide	AA
R1504	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1505	VRS-CY1JF102J	J 1k 1/16W	Metal Oxide	AA
R1506	VRS-CY1JF221J	J 220 1/16W	Metal Oxide	AA
R1507	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1508	VRS-CY1JF102J	J 1k 1/16W	Metal Oxide	AA
R1509	VRS-CY1JF221J	J 220 1/16W	Metal Oxide	AA
R1510	VRS-CY1JF101J	J 100 1/16W	Metal Oxide	AA
R1511	VRS-CY1JF102J	J 1k 1/16W	Metal Oxide	AA
R1513	VRS-CY1JF103J	J 10k 1/16W	Metal Oxide	AA
R1529	VRS-CY1JF512F	J 5.1k 1/16W	Metal Oxide	AA
R1530	VRS-CY1JF102F	J 1k 1/16W	Metal Oxide	AA
R1531	VRS-CY1JF471J	J 470 1/16W	Metal Oxide	AA
R1532	VRS-CY1JF202F	J 2k 1/16W	Metal Oxide	AA
R1533	VRS-CY1JF102F	J 1k 1/16W	Metal Oxide	AA
R1534	VRS-CY1JF102J	J 1k 1/16W	Metal Oxide	AA
R1535	VRS-CY1JF680J	J 68 1/16W	Metal Oxide	AA
R1536	VRS-CY1JF470J	J 47 1/16W	Metal Oxide	AA
R1537	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1538	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1539	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1540	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1541	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1542	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1543	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1544	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1545	VRS-CY1JF680J	J 68 1/16W	Metal Oxide	AA
R1546	VRS-CY1JF470J	J 47 1/16W	Metal Oxide	AA
R1547	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1548	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1549	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1550	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1551	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1552	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1553	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1554	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1555	VRS-CY1JF680J	J 68 1/16W	Metal Oxide	AA
R1556	VRS-CY1JF470J	J 47 1/16W	Metal Oxide	AA
R1557	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1558	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1559	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1560	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1561	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1562	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1563	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1564	VRS-TV1JD000J	J 0 1/16W	Metal Oxide	AA
R1568	VRS-CY1JF102J	J 1k 1/16W	Metal Oxide	AA
R1575	VRS-CY1JF821J	J 820 1/16W	Metal Oxide	AA
R1576	VRS-CY1JF821J	J 820 1/16W	Metal Oxide	AA
R1577	VRS-CY1JF821J	J 820 1/16W	Metal Oxide	AA
R1580	VRS-CY1JF102J	J 1k 1/16W	Metal Oxide	AA
R1581	VRS-CY1JF103J	J 10k 1/16W	Metal Oxide	AA
R1582	VRS-CY1JF103J	J 10k 1/16W	Metal Oxide	AA
R1583	VRS-CY1JF103J	J 10k 1/16W	Metal Oxide	AA

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Ref. No.	Part No.	★		Description	Code
R1584	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1585	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1586	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R1590	VRS-CY1JF102J	J	1k	1/16W Metal Oxide	AA
R1591	VRS-CY1JF102J	J	1k	1/16W Metal Oxide	AA
R1592	VRS-CY1JF102J	J	1k	1/16W Metal Oxide	AA
R2101	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R2102	VRS-CY1JF221F	J	220	1/16W Metal Oxide	AA
R2103	VRS-CY1JF221F	J	220	1/16W Metal Oxide	AA
R2104	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2105	VRS-CY1JF102J	J	1k	1/16W Metal Oxide	AA
R2106	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2107	VRS-CY1JF102J	J	1k	1/16W Metal Oxide	AA
R2109	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R2110	VRS-CY1JF221F	J	220	1/16W Metal Oxide	AA
R2111	VRS-CY1JF221F	J	220	1/16W Metal Oxide	AA
R2112	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2113	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R2114	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R2115	VRS-CY1JF272J	J	2.7k	1/16W Metal Oxide	AA
R2116	VRS-CY1JF272J	J	2.7k	1/16W Metal Oxide	AA
R2117	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2118	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R2119	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2120	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2121	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R2122	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R2123	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2124	VRS-TV1JD331J	J	330	1/16W Metal Oxide	AA
R2125	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2126	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2127	VRS-TV1JD331J	J	330	1/16W Metal Oxide	AA
R2128	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2129	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2130	VRS-CY1JF104J	J	100k	1/16W Metal Oxide	AA
R2131	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2132	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2134	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2135	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2136	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2137	VRS-CY1JF182F	J	1.8k	1/16W Metal Oxide	AA
R2138	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2139	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2140	VRS-CY1JF470J	J	47	1/16W Metal Oxide	AA
R2141	VRS-CY1JF470J	J	47	1/16W Metal Oxide	AA
R2142	VRS-CY1JF470J	J	47	1/16W Metal Oxide	AA
R2143	VRS-CY1JF470J	J	47	1/16W Metal Oxide	AA
R2144	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2148	VRS-CY1JF273J	J	27k	1/16W Metal Oxide	AA
R2149	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2150	VRS-CY1JF682J	J	6.8k	1/16W Metal Oxide	AA
R2151	VRS-CY1JF183J	J	18k	1/16W Metal Oxide	AA
R2152	VRS-CY1JF682J	J	6.8k	1/16W Metal Oxide	AA
R2153	VRS-CY1JF821F	J	820	1/16W Metal Oxide	AA
R2154	VRS-CY1JF912F	J	9.1k	1/16W Metal Oxide	AA
R2155	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2157	VRS-CY1JF122J	J	1.2k	1/16W Metal Oxide	AA
R2158	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2159	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2160	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2161	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2162	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2163	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2164	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2165	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2166	VRS-CY1JF120F	J	12	1/16W Metal Oxide	AA
R2167	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2168	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2169	VRS-CY1JF181J	J	180	1/16W Metal Oxide	AA
R2171	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2183	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2184	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2185	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2186	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2187	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2188	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2194	VRS-CY1JF272J	J	2.7k	1/16W Metal Oxide	AA
R2195	VRS-CY1JF682J	J	6.8k	1/16W Metal Oxide	AA
R2196	VRS-CY1JF682J	J	6.8k	1/16W Metal Oxide	AA
R2197	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2198	VRS-CY1JF681F	J	680	1/16W Metal Oxide	AA
R2199	VRS-CY1JF472J	J	4.7k	1/16W Metal Oxide	AA
R2201	VRS-CY1JF3R3J	J	3.3	1/16W Metal Oxide	AA
R2202	VRS-CY1JF221F	J	220	1/16W Metal Oxide	AA
R2203	VRS-CY1JF221F	J	220	1/16W Metal Oxide	AA
R2204	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2205	VRS-CY1JF102J	J	1k	1/16W Metal Oxide	AA
R2206	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2207	VRS-CY1JF102J	J	1k	1/16W Metal Oxide	AA
R2209	VRS-CY1JF392J	J	3.9k	1/16W Metal Oxide	AA
R2210	VRS-CY1JF221F	J	220	1/16W Metal Oxide	AA
R2211	VRS-CY1JF221F	J	220	1/16W Metal Oxide	AA
R2212	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2213	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R2214	VRS-CY1JF562J	J	5.6k	1/16W Metal Oxide	AA
R2215	VRS-CY1JF272J	J	2.7k	1/16W Metal Oxide	AA
R2216	VRS-CY1JF272J	J	2.7k	1/16W Metal Oxide	AA
R2217	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2218	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R2219	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2220	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2221	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R2222	VRS-CY1JF681J	J	680	1/16W Metal Oxide	AA
R2223	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2224	VRS-TV1JD331J	J	330	1/16W Metal Oxide	AA
R2225	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2226	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2227	VRS-TV1JD331J	J	330	1/16W Metal Oxide	AA
R2228	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2229	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2230	VRS-CY1JF104J	J	100k	1/16W Metal Oxide	AA
R2231	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2232	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2234	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2235	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2236	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2237	VRS-CY1JF182F	J	1.8k	1/16W Metal Oxide	AA
R2238	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2239	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2240	VRS-CY1JF470J	J	47	1/16W Metal Oxide	AA
R2241	VRS-CY1JF470J	J	47	1/16W Metal Oxide	AA
R2242	VRS-CY1JF470J	J	47	1/16W Metal Oxide	AA
R2243	VRS-CY1JF470J	J	47	1/16W Metal Oxide	AA
R2244	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2248	VRS-CY1JF273J	J	27k	1/16W Metal Oxide	AA
R2249	VRS-CY1JF103J	J	10k	1/16W Metal Oxide	AA
R2250	VRS-CY1JF682J	J	6.8k	1/16W Metal Oxide	AA
R2251	VRS-CY1JF183J	J	18k	1/16W Metal Oxide	AA
R2252	VRS-CY1JF682J	J	6.8k	1/16W Metal Oxide	AA
R2253	VRS-CY1JF821F	J	820	1/16W Metal Oxide	AA
R2254	VRS-CY1JF912F	J	9.1k	1/16W Metal Oxide	AA
R2255	VRS-CY1JF101J	J	100	1/16W Metal Oxide	AA
R2257	VRS-CY1JF122J	J	1.2k	1/16W Metal Oxide	AA
R2258	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2259	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2260	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2261	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2262	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2263	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2264	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2265	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2266	VRS-CY1JF120F	J	12	1/16W Metal Oxide	AA
R2267	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2268	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2269	VRS-CY1JF181J	J	180	1/16W Metal Oxide	AA
R2271	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2283	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA
R2284	VRS-CY1JF000J	J	0	1/16W Metal Oxide	AA

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Ref. No.	Part No.	★	Description	Code
R2285	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2286	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2287	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2288	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2294	VRS-CY1JF272J	J 2.7k	1/16W Metal Oxide	AA
R2295	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R2296	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R2299	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
R2301	VRS-CY1JF3R3J	J 3.3	1/16W Metal Oxide	AA
R2302	VRS-CY1JF221F	J 220	1/16W Metal Oxide	AA
R2303	VRS-CY1JF221F	J 220	1/16W Metal Oxide	AA
R2304	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R2305	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R2306	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R2307	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R2309	VRS-CY1JF392J	J 3.9k	1/16W Metal Oxide	AA
R2310	VRS-CY1JF221F	J 220	1/16W Metal Oxide	AA
R2311	VRS-CY1JF221F	J 220	1/16W Metal Oxide	AA
R2312	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R2313	VRS-CY1JF562J	J 5.6k	1/16W Metal Oxide	AA
R2314	VRS-CY1JF562J	J 5.6k	1/16W Metal Oxide	AA
R2315	VRS-CY1JF272J	J 2.7k	1/16W Metal Oxide	AA
R2316	VRS-CY1JF272J	J 2.7k	1/16W Metal Oxide	AA
R2317	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R2318	VRS-CY1JF681J	J 680	1/16W Metal Oxide	AA
R2319	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R2320	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R2321	VRS-CY1JF681J	J 680	1/16W Metal Oxide	AA
R2322	VRS-CY1JF681J	J 680	1/16W Metal Oxide	AA
R2323	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R2324	VRS-TV1JD331J	J 330	1/16W Metal Oxide	AA
R2325	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R2326	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R2327	VRS-TV1JD331J	J 330	1/16W Metal Oxide	AA
R2328	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R2329	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R2330	VRS-CY1JF104J	J 100k	1/16W Metal Oxide	AA
R2331	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R2332	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R2334	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R2335	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2336	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2337	VRS-CY1JF182F	J 1.8k	1/16W Metal Oxide	AA
R2338	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2339	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2340	VRS-CY1JF470J	J 47	1/16W Metal Oxide	AA
R2341	VRS-CY1JF470J	J 47	1/16W Metal Oxide	AA
R2342	VRS-CY1JF470J	J 47	1/16W Metal Oxide	AA
R2343	VRS-CY1JF470J	J 47	1/16W Metal Oxide	AA
R2344	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2346	VRS-CY1JF183F	J 18k	1/16W Metal Oxide	AA
R2347	VRS-CY1JF103F	J 10k	1/16W Metal Oxide	AA
R2348	VRS-CY1JF273J	J 27k	1/16W Metal Oxide	AA
R2349	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R2350	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R2351	VRS-CY1JF183J	J 18k	1/16W Metal Oxide	AA
R2352	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R2353	VRS-CY1JF821F	J 820	1/16W Metal Oxide	AA
R2354	VRS-CY1JF912F	J 9.1k	1/16W Metal Oxide	AA
R2355	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R2357	VRS-CY1JF122J	J 1.2k	1/16W Metal Oxide	AA
R2358	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2359	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2360	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2361	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2362	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2363	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2364	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2365	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2366	VRS-CY1JF120F	J 12	1/16W Metal Oxide	AA
R2367	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2368	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2369	VRS-CY1JF181J	J 180	1/16W Metal Oxide	AA
R2371	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2372	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA
R2383	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2384	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2385	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2386	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2387	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2388	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2394	VRS-CY1JF272J	J 2.7k	1/16W Metal Oxide	AA
R2395	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R2396	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R2397	VRS-CY1JF000J	J 0	1/16W Metal Oxide	AA
R2398	VRS-CY1JF681F	J 680	1/16W Metal Oxide	AA
R2399	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
R5001	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R5002	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R5003	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R5004	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R5005	VRS-CY1JF472F	J 4.7k	1/16W Metal Oxide	AA
R5006	VRS-CY1JF203F	J 20k	1/16W Metal Oxide	AA
R5007	VRS-CY1JF472F	J 4.7k	1/16W Metal Oxide	AA
R5008	VRS-CY1JF103F	J 10k	1/16W Metal Oxide	AA
R5009	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R5010	VRS-CY1JF105J	J 1M	1/16W Metal Oxide	AA
R5011	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5012	VRS-CB1JF103J	J 10k	1/16W Metal Oxide	AA
R5013	VRS-CY1JF273J	J 27k	1/16W Metal Oxide	AA
R5014	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5015	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R5016	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R5017	VRN-CY1JF103D	J 10k	1/16W Metal Film	AA
R5018	VRN-CY1JF242D	J 2.4k	1/16W Metal Film	AB
R5019	VRS-CY1JF273J	J 27k	1/16W Metal Oxide	AA
R5020	VRN-CY1JF563D	J 56k	1/16W Metal Film	AB
R5021	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R5022	VRN-CY1JF272D	J 2.7k	1/16W Metal Film	AB
R5023	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R5025	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R5026	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R5027	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R5028	VRS-CA1JF101J	J 100	1/16W Metal Oxide	AA
R5029	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5030	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5031	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R5032	VRS-CY1JF103J	J 10k	1/16W Metal Oxide	AA
R5033	VRS-CY1JF162F	J 1.6k	1/16W Metal Oxide	AA
R5034	VRS-CY1JF102F	J 1k	1/16W Metal Oxide	AA
R5049	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5051	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5052	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5053	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5054	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5056	VRS-CY1JF152J	J 1.5k	1/16W Metal Oxide	AA
R5058	VRS-CY1JF152J	J 1.5k	1/16W Metal Oxide	AA
R5060	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
R5061	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R5062	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5064	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5065	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5066	VRS-CB1JF101J	J 100	1/16W Metal Oxide	AA
R5069	VRS-CY1JF152J	J 1.5k	1/16W Metal Oxide	AA
R5070	VRS-CB1JF103J	J 10k	1/16W Metal Oxide	AA
R5071	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5072	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5073	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5074	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R5075	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R5076	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
R5077	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5078	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R5079	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5080	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
R5081	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5082	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA
R5083	VRS-CY1JF101J	J 100	1/16W Metal Oxide	AA

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Ref. No.	Part No.	★	Description	Code
R5085	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R5086	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R5087	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R5088	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5089	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5090	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5091	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5092	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5093	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5095	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5096	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5097	VRN-CY1JF333D	J	33k 1/16W Metal Film	AA
R5099	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5101	VRN-CY1JF472D	J	4.7k 1/16W Metal Film	AA
R5103	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5104	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5115	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5116	VRS-TX2HF2R2J	J	2.2 1/2W Metal Oxide	AB
R5118	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5119	VRS-TX2HF2R2J	J	2.2 1/2W Metal Oxide	AB
R5120	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R5142	VRS-TW2ED1R0J	J	1 1/4W Metal Oxide	AB
R5143	VRS-TW2ED1R0J	J	1 1/4W Metal Oxide	AB
R5145	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5146	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5157	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5159	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5160	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R5161	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R5170	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R5173	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R5174	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R5175	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R5180	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R5181	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5186	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R5187	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5188	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R5189	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R5190	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5191	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5192	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5193	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5194	VRS-CY1JF751J	J	750 1/16W Metal Oxide	AA
R5195	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5196	VRS-CY1JF751J	J	750 1/16W Metal Oxide	AA
R5197	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5198	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R5199	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R5201	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5202	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5203	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5204	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5205	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5206	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5207	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5208	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5209	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5210	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5211	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5212	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5213	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5214	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5215	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5216	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5217	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5218	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5219	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5220	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5221	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5222	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5223	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5224	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5225	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5226	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5227	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5228	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5229	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5230	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5231	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5232	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5233	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5234	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5235	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R5236	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R5237	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5238	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5239	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5240	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5241	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R5251	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5252	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5501	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5503	VRS-TX2HF2R2J	J	2.2 1/2W Metal Oxide	AB
R5508	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5556	VRS-TX2HF1R0J	J	1 1/2W Metal Oxide	AA
R5557	VRS-TX2HF1R0J	J	1 1/2W Metal Oxide	AA
R5558	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R5563	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5564	VRS-CY1JF123F	J	12k 1/16W Metal Oxide	AA
R5565	VRS-CY1JF102F	J	1k 1/16W Metal Oxide	AA
R5566	VRS-CY1JF510F	J	51 1/16W Metal Oxide	AA
R5592	VRS-TV1JD1R5J	J	1.5 1/16W Metal Oxide	AA
R5602	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R5606	VRS-CY1JF103F	J	10k 1/16W Metal Oxide	AA
R5607	VRS-CY1JF333F	J	33k 1/16W Metal Oxide	AA
R5608	VRS-CY1JF102F	J	1k 1/16W Metal Oxide	AA

SWITCHES

S1301	QSW-S0227CEZZ	J	Slide Switch	AE

MISCELLANEOUS PARTS

FB1101	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1102	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1104	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1105	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1106	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1107	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1115	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1123	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1124	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1125	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1147	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1201	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1202	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1204	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1205	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1206	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1207	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1215	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1223	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1224	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1225	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1247	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1301	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1302	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1304	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1305	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1306	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1307	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1315	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1323	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1324	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1325	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1347	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1434	RBLN-0050TAZZ	J	Ferrite Bead	AB
FB1501	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1502	RBLN-0059CEZZ	J	Ferrite Bead	AB

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FB1503	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1504	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1505	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB1507	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB5516	RBLN-0062CEZZ	J	Ferrite Bead	AC
FB5517	RBLN-0062CEZZ	J	Ferrite Bead	AC
P1403	QPLGN1064TAZZ	J	Plug, 10-pin (SO)	AF
P1404	QCNCM6013CEZZ	J	Connector, 60-pin	AP
P1405	QCNCM6013CEZZ	J	Connector, 60-pin	AP
P5002	QCNCM6022CEZZ	J	Connector, 60-pin (CC)	AN
P5014	QPLGN0364TAZZ	J	Plug, 3-pin (RC)	AC
P5504	QPLGN0174FJZZ	J	Plug, 2-pin (F)	AC
P5512	QPLGN0364TAZZ	J	Plug, 3-pin (FE)	AC
SC1101	QSOCN2436TAZZ	J	Plug, 24-pin (RP)	AH
SC1201	QSOCN2436TAZZ	J	Socket, 24-pin (GP)	AH
SC1301	QSOCN2436TAZZ	J	Socket, 24-pin (BP)	AH
SC1501	QSOCZ2828CEZZ	J	Socket, 28-pin (CA)	AF
SC1502	QSOCZ2828CEZZ	J	Socket, 28-pin (CB)	AF

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OUTPUT SUB UNIT

INTEGRATED CIRCUITS

IC5503	VHiPQ05SZ51-1	J	PQ05SZ51	AG
IC5504	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC5505	VHiPQ20VZ11-1	J	PQ20VZ11	AH
IC5506	VHiTC4S66F/-1	J	TC4S66F	AD
IC5511	VHiNJM2901V-1	J	NJM2901V	AD
IC5512	RH-iX2204CEZZ	J	PQ12TZ11	AG

TRANSISTORS

Q5001	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q5002	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q5003	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q5004	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q5005	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q5503	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q5504	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q5512	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q5513	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q5514	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q5516	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q5518	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q5526	VSDTC114EU/-1	J	DTC114EU	AB
Q5531	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q5532	VSDTC114EU/-1	J	DTC114EU	AB

DIODES

D5001	VHDRB425D//-1	J	Diode	AD
D5002	VHDRB425D//-1	J	Diode	AD
D5003	VHDRB425D//-1	J	Diode	AD
D5004	VHDRB425D//-1	J	Diode	AD
D5005	VHDMA153///-1	J	Diode	AB
D5006	VHDMA153///-1	J	Diode	AB
D5007	VHDMA153///-1	J	Diode	AB
D5008	VHDMA153///-1	J	Diode	AB
D5009	VHDRB425D//-1	J	Diode	AD
D5010	VHDRB425D//-1	J	Diode	AD
D5011	VHDRB425D//-1	J	Diode	AD
D5012	VHDRB425D//-1	J	Diode	AD
D5013	VHDMA153///-1	J	Diode	AB
D5014	VHDMA153///-1	J	Diode	AB
D5015	VHDMA153///-1	J	Diode	AB
D5016	VHDMA153///-1	J	Diode	AB
D5503	VHDDAN202K/-1	J	Diode	AB
D5504	VHDDAN202K/-1	J	Diode	AB
D5505	VHDDAN202K/-1	J	Diode	AB
D5512	VHDDAN202K/-1	J	Diode	AB
D5513	VHDDAN202K/-1	J	Diode	AB
D5514	RH-EX0516CEZZ	J	Zener Diode, 5.1V	AB
D5517	VHDDAN202K/-1	J	Diode	AB
D5519	VHDDAN202K/-1	J	Diode	AB
D5520	VHDDAN202K/-1	J	Diode	AB
D5521	VHDDAN202K/-1	J	Diode	AB

CAPACITORS

C5001	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C5057	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C5058	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C5508	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C5509	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5510	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C5511	VCEAPF1EW336M	J	33	25V	Electrolytic	AB
C5512	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C5513	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C5514	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5515	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C5516	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5517	VCEAPX1CW227M	J	220	16V	Electrolytic	AD
C5533	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C5534	VCEAPF1EW226M	J	22	25V	Electrolytic	AB
C5535	VCEAPX1CW227M	J	220	16V	Electrolytic	AD
C5551	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA

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Ref. No.	Part No.	★	Description			Code
C5553	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5554	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C5555	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C5556	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C5558	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C5563	VCEAPX1CW227M	J	220	16V	Electrolytic	AD
C5564	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C5567	VCEAPF1EW106M	J	10	25V	Electrolytic	AB
C5570	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C5571	VCEAPF1CW107M	J	100	16V	Electrolytic	AD

RESISTORS

R5035	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5036	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R5037	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5038	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R5039	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5040	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R5041	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5042	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R5043	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R5044	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5045	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5046	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R5047	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5084	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5105	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5106	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5107	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5108	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5109	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5110	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5111	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5112	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R5179	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R5506	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R5507	VRS-TX2HF2R2J	J	2.2	1/2W	Metal Oxide	AB
R5509	VRS-CB1JF102J	J	1k	1/16W	Metal Oxide	AA
R5510	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5513	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5520	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5526	VRS-CY1JF184J	J	180k	1/16W	Metal Oxide	AA
R5527	VRN-CY1JF242D	J	2.4k	1/16W	Metal Film	AB
R5528	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R5529	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R5530	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5538	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R5539	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R5540	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5542	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R5543	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R5544	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R5545	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R5550	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R5551	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5552	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R5553	VRS-CY1JF223J	J	22k	1/16W	Metal Oxide	AA
R5554	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5555	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R5570	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R5571	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R5573	VRS-CY1JF102F	J	1k	1/16W	Metal Oxide	AA
R5574	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5575	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5576	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5577	VRS-CY1JF683F	J	68k	1/16W	Metal Oxide	AA
R5578	VRS-CY1JF102F	J	1k	1/16W	Metal Oxide	AA
R5579	VRS-CY1JF103F	J	10k	1/16W	Metal Oxide	AA
R5580	VRS-CY1JF473F	J	47k	1/16W	Metal Oxide	AA
R5581	VRS-TV1JD472J	J	4.7k	1/16W	Metal Oxide	AA
R5582	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R5583	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R5588	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R5590	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R5591	VRS-TV1JD3R3J	J	3.3	1/16W	Metal Oxide	AA
R5593	VRS-CY1JF101F	J	100	1/16W	Metal Oxide	AA
R5594	VRS-CY1JF822J	J	8.2k	1/16W	Metal Oxide	AA
R5595	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R5601	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5610	VRS-CY1JF1R0J	J	1	1/16W	Metal Oxide	AA
R5611	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5612	VRS-TV1JD332J	J	3.3k	1/16W	Metal Oxide	AA
R5614	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R5615	VRS-CY1JF472J	J	4.7k	1/16W	Metal Oxide	AA
R5619	VRS-CY1JF682J	J	6.8k	1/16W	Metal Oxide	AA
R5620	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA

SWITCHES

S2003	QSW-S0198CEZZ	J	Slide Switch	AF
S5001	QSW-K0065GEZZ	J	Key Switch	AC

MISCELLANEOUS PARTS

FB5001	RBLN-0062CEZZ	J	Ferrite Bead	AC
P5501	QPLGN0174FJZZ	J	Plug, 2-pin (Q)	AC
P5502	QPLGN1463TAZZ	J	Plug, 14-pin	AE
P5503	QPLGN0264TAZZ	J	Plug, 2-pin (L)	AC
P5505	QPLGN0176FJZZ	J	Plug, 4-pin (FS)	AD
P5506	QPLGN0175FJZZ	J	Plug, 3-pin (FN)	AD
P5509	QPLGN0394FJZZ	J	Plug, 22-pin (EA)	AD
P5511	QPLGN0174FJZZ	J	Plug, 2-pin (FT)	AC
SC5001	QSOCN1697REZZ	J	Socket 16-pin (KY)	AE
SC5002	QCNCW6013CEZZ	J	Connector 60-pin (CC)	AN

RUNTK0602CEZZ
FILTER UNIT

COILS

⚠ L781	9FJ0L05010580	J	Inductor 8mH	AN
⚠ L782	9FJ0L05010580	J	Inductor 8mH	AN

CAPACITORS

⚠ C781	9FJ0C34010623	J	0.1	250V	M.Polyester	AE
⚠ C782	9FJ0C50003060	J	2200p	250V	Ceramic	AE
⚠ C783	9FJ0C50003060	J	2200p	250V	Ceramic	AE
⚠ C784	9FJ0C34010623	J	0.1	250V	M.Polyester	AE

RESISTORS

⚠ R781	9FJ0R11002110	J	470k 1W	AC
⚠ R782	9FJ0R22107510	J	0.22 5W	AE

MISCELLANEOUS PARTS

CN782	9FJ0G10001750	J	Connector 3-pin (PA)	AE
	9FJ0i10006800	J	Wire Harness (FG)	AF
	9FJ0i10006810	J	Wire Harness (FG2)	AG
	9FJ0i10006830	J	Wire Harness (PF)	AM

Ref. No.	Part No.	★	Description	Code

DUNTK9985DE02/03/04
SOUND OUT UNIT

INTEGRATED CIRCUITS

IC1409	VHiTA8184F/-1	J	TA8184F	AN
IC7301	VHiTDA1517/-2	J	TDA1517/N2	AL

CAPACITORS

C1416	VCFRED1HM822J	J	8200p	50V	Mylar	AD
C1417	VCFYEC1CM334J	J	0.33	16V	Mylar	AE
C1418	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1419	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1420	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C1421	VCKYCY1CF154Z	J	0.15	16V	Ceramic	AB
C1422	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1423	VCKYTV1CF105Z	J	1	16V	Ceramic	AB
C1424	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1425	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C1426	VCFYEC1CM334J	J	0.33	16V	Mylar	AE
C1427	VCFRED1HM822J	J	8200p	50V	Mylar	AD
C1428	VCKYCY1HB102K	J	1000p	50V	Ceramic	AA
C1429	VCEAPF1CW476M	J	47	16V	Electrolytic	AC
C7301	VCE9PF1CW475M	J	4.7	16V	Elect. (N.P)	AC
C7302	VCEAPF1CW107M	J	100	16V	Electrolytic	AD
C7303	VCEA2A1CW108M	J	1000	16V	Electrolytic	AB
C7304	VCEA2A1CW108M	J	1000	16V	Electrolytic	AB
C7305	VCE9PF1CW475M	J	4.7	16V	Elect. (N.P)	AC
C7306	VCEA2A1EW477M	J	470	25V	Electrolytic	AD
C7307	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C7308	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C7321	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB
C7322	VCEAPF1EW475M	J	4.7	25V	Electrolytic	AB

RESISTORS

R1416	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1417	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1418	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1419	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R1420	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1421	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1422	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1423	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1424	VRS-CY1JF104J	J	100k	1/16W	Metal Oxide	AA
R1425	VRS-TX2HF5R6J	J	5.6	1/2W	Metal Oxide	AA
R7301	QPS-J2521CEZZ	J	Fuse Resistor			AF
R7321	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R7322	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA

MISCELLANEOUS

FB7305	RBLN-0060CEZZ	J	Ferrite Bead	AC
P7302	QPLGN1064TAZZ	J	Plug, 10-pin (SO)	AF
P7303	QPLGN0464TAZZ	J	Plug, 4-pin (SP)	AC

DUNTK9986DE02/03/04
R/C RECEIVER UNIT

CAPACITOR

C7501	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC

RESISTORS

R7501	VRS-CY1JF471J	J	470	1/16W	Metal Oxide	AA
R7502	VRS-CY1JF220J	J	22	1/16W	Metal Oxide	AA

MISCELLANEOUS PART

P7501	QPLGN0364TAZZ	J	Lead Relay Plug, 3-pin (PC)	AC
RMC7501	RRMCU0225CEZZ	J	R/C Receiver	AK
	PSLDC3063CEFW	J	Shield	AE
	PSLDC3066CEZZ	J	Shield	AD

Ref. No.	Part No.	★	Description	Code

RUNTK0606CEZZ
AC-SW UNIT

PACKAGED CIRCUIT

⚠ TNR791	9FJ0F20001280	J	ENE471D-10A	AD

CAPACITOR

⚠ C791	9FJ0C34010660	J	0.47	250V	M.Polyester	AH

RESISTOR

⚠ R791	9FJ0R11002110	J	470k	1W	AC

SWITCH

⚠ SW791	9FJ0i10006790	J	Switch/AC Inlet Ass'y X33INL-SW	AZ

MISCELLANEOUS PARTS

⚠ F791	9FJ0E02110070	J	Fuse 5A 250V	AF
CN791	9FJ0G10003930	J	Connector 3-pin (PF)	AD

RUNTK0607CEZZ
OPERATION KEY UNIT

DIODES

LED1	95EZ-S3117-01	J	Red LED, Power	AD
LED2	95EZ-S3117-01	J	Red LED, Adjustment ▲	AD
LED3	95EZ-S3117-01	J	Red LED, Adjustment ▼	AD
LED4	95EZ-S3117-01	J	Red LED, Mute	AD
LED5	95EZ-S3117-01	J	Red LED, Input Select	AD
LED6	95EZ-S3117-01	J	Red LED, Volume-Up	AD
LED7	95EZ-S3117-01	J	Red LED, Volume-Down	AD
LED8	95EZ-S3117-01	J	Red LED, Menu	AD
LED9	95EZ-S3117-01	J	Red LED, Adjustment ▶	AD
LED10	95EZ-S3117-01	J	Red LED, Adjustment ◀	AD
LED11	95EZ-S3117-01	J	Red LED, Enter	AD
LED12	95EZ-S3117-01	J	Red LED, Temperature Warning Indicator	AD
LED13	95EZ-S3165-01	J	Red/Green LED Power Indicator	AG
LED14	95EZ-S3165-01	J	Red/Green LED Lamp Replacement Indicator	AG
LED15	95EZ-S3117-01	J	Red LED, Black Screen	AD
LED16	95EZ-S3117-01	J	Red LED	AD

RESISTORS

R1	95EZ-W08FA-27	J	2.7k	AA
R2	95EZ-W08FA-27	J	2.7k	AA
R3	95EZ-W08FA-27	J	2.7k	AA
R4	95EZ-W08FA-27	J	2.7k	AA
R5	95EZ-W08FA-27	J	2.7k	AA
R6	95EZ-W08FA-27	J	2.7k	AA
R7	95EZ-W08FA-27	J	2.7k	AA
R8	95EZ-W08FA-27	J	2.7k	AA
R9	95EZ-W08FA-27	J	2.7k	AA
R10	95EZ-W08FA-27	J	2.7k	AA
R11	95EZ-W08FA-27	J	2.7k	AA
R12	95EZ-W08FA-22	J	220	AA
R13	95EZ-W08FA-22	J	220	AA
R14	95EZ-W08FA-22	J	220	AA
R15	95EZ-W08FA-22	J	220	AA
R16	95EZ-W08FA-22	J	220	AA
R17	95EZ-W08FA-27	J	2.7k	AA
R18	95EZ-W08FA-27	J	2.7k	AA

MISCELLANEOUS PARTS

	95E101APG-035	J	Case	AL
	95E421APG-088	J	Rubber Sheet	AY
	95EE-AA1378-0	J	FFC	AH

CTANZ0709CE01
PC TERMINAL UNIT

INTEGRATED CIRCUITS

Ref. No.	Part No.	★	Description	Code
IC3001	VHiAD8013AR-1	J	I.C.	AV
IC3002	RH-iX2317CEZZ	J	I.C.	AF
IC3003	VHiTL712CPS-1	J	I.C.	AL
IC3004	VHiTL712CPS-1	J	I.C.	AL
IC3005	VHiTL712CPS-1	J	I.C.	AL
IC3009	VHiTL712CPS-1	J	I.C.	AL
IC3010	VHiTL712CPS-1	J	I.C.	AL
IC3011	VHiM52348FP-1	J	I.C.	AS
IC3012	VHi74LS153/-1	J	I.C.	AF
IC3013	VHi24LC21//-1	J	I.C.	AN
IC3014	VHi24LC21//-1	J	I.C.	AN
IC3015	VHiTL712CPS-1	J	I.C.	AL

TRANSISTOR

Ref. No.	Part No.	★	Description	Code
Q3003	VS2SC2412KQ-1	J	2SC2412KQ	AA

DIODES

Ref. No.	Part No.	★	Description	Code
D3003	VHDMA152WA/-1	J	Diode MA152WA	AA
D3004	VHDMA152WA/-1	J	Diode MA152WA	AA
D3020	VHDMA152WA/-1	J	Diode MA152WA	AA
D3021	VHDMA152WA/-1	J	Diode MA152WA	AA
D3022	VHDMA152WA/-1	J	Diode MA152WA	AA
D3023	VHDMA152WA/-1	J	Diode MA152WA	AA
D3024	VHDMA152WA/-1	J	Diode MA152WA	AA
D3028	VHDMA152WA/-1	J	Diode MA152WA	AA
D3029	VHDMA152WA/-1	J	Diode MA152WA	AA
D3032	VHDMA152WA/-1	J	Diode MA152WA	AA
D3033	VHDMA152WA/-1	J	Diode MA152WA	AA
D3034	VHDMA152WA/-1	J	Diode MA152WA	AA

COILS

Ref. No.	Part No.	★	Description	Code
L3002	VPAPM100K1R3N	J	Peaking Coil 10µH	AD
L3004	VPAPM220K3R0N	J	Peaking Coil 22µH	AK
L3006	VPAPM100K1R3N	J	Peaking Coil 10µH	AD

CAPACITORS

Ref. No.	Part No.	★				Code
C3001	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3002	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3003	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3004	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3005	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3006	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3008	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3009	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3010	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3011	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3012	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3013	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C3014	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3027	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3028	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C3029	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3030	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3031	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3032	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3033	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3034	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3036	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3037	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3039	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3040	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3041	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3042	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3043	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3044	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3045	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3046	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3047	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3062	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3063	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3065	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3066	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3067	VCEAPH0JW226M	J	22	6.3V	Electrolytic	AB
C3068	VCEAPH0JW226M	J	22	6.3V	Electrolytic	AB
C3069	VCEAPH0JW226M	J	22	6.3V	Electrolytic	AB
C3070	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C3071	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3072	VCEAPF0JW476M	J	47	6.3V	Electrolytic	AB
C3073	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C3075	VCCCCY1HH330J	J	33p	50V	Ceramic	AA
C3076	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA
C3077	VCKYCY1CF104Z	J	0.1	16V	Ceramic	AA

RESISTORS

Ref. No.	Part No.	★				Code
R2001	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R2002	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R2003	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R3004	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3005	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3006	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3007	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3008	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3009	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3010	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3011	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3012	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3013	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3014	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3015	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3016	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3017	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3018	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3019	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R3020	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R3021	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R3022	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R3023	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R3024	VRS-CY1JF821J	J	820	1/16W	Metal Oxide	AA
R3025	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R3026	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R3027	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R3046	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R3047	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R3048	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R3049	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R3050	VRS-CY1JF122J	J	1.2k	1/16W	Metal Oxide	AA
R3054	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3055	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3056	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3057	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3058	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3059	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3060	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3061	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3062	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3063	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3079	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3083	VRS-CY1JF562J	J	5.6k	1/16W	Metal Oxide	AA
R3085	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R3087	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R3088	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R3092	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3093	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3094	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3095	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3096	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3099	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3100	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3102	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3103	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3112	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3113	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3114	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3115	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3116	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code

CTANZ0709CE01

PC TERMINAL UNIT (Cotinued)

R3117	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3118	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3119	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3120	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R3121	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3130	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3131	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3132	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3138	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R3139	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R3140	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R3141	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R3142	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R3143	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3144	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3145	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3146	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3147	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3149	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3150	VRS-CY1JF271J	J	270	1/16W	Metal Oxide	AA
R3151	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R3152	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA
R3153	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R3154	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R3155	VRS-CY1JF270J	J	27	1/16W	Metal Oxide	AA
R3156	VRS-CY1JF752J	J	7.5k	1/16W	Metal Oxide	AA
R3157	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3158	VRS-CY1JF752J	J	7.5k	1/16W	Metal Oxide	AA
R3159	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R3160	VRS-CY1JF752J	J	7.5k	1/16W	Metal Oxide	AA
R3161	VRS-CY1JF270J	J	27	1/16W	Metal Oxide	AA
R3162	VRS-CY1JF752J	J	7.5k	1/16W	Metal Oxide	AA
R3163	VRS-CY1JF270J	J	27	1/16W	Metal Oxide	AA
R3164	VRS-CY1JF752J	J	7.5k	1/16W	Metal Oxide	AA
R3165	VRS-CY1JF270J	J	27	1/16W	Metal Oxide	AA
R3166	VRS-CY1JF752J	J	7.5k	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB3001	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3002	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3003	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3004	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3005	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3006	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3007	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3008	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3009	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3010	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3011	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3012	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3013	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3014	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB3015	RBLN-0059CEZZ	J	Ferrite Bead	AB
J3001	QSOCN0344FJZZ	J	Jack 15-pin, RGB IN1	AM
J3002	QSOCN0344FJZZ	J	Jack 15-pin, RGB OUT	AM
J3003	QSOCN0344FJZZ	J	Jack 15-pin, RGB IN2	AM
SC3001	QSOCZ2043CEZZ	J	Socket 20-pin (TN)	AE

Ref. No.	Part No.	★	Description	Code

CTANZ0710CE02

VIDEO BOARD UNIT

INTEGRATED CIRCUITS

IC6001	VHiNJM2245M-1	J	I.C	AF
IC6002	VHiNJ2233BM-1	J	I.C.	AE
IC6003	VHiNJ2233BM-1	J	I.C.	AE
IC6004	VHiMC141627-1	J	I.C.	AY

TRANSISTORS

Q6002	VS2SA1037KQ-1	J	2SA1037KQ	AA
Q6003	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q6004	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q6008	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q6009	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q6013	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q6014	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q6016	VS2SC2412KQ-1	J	2SC2412KQ	AA

DIODES

D6001	RH-EX0879CEZZ	J	Zener Diode, 12V	AD
D6003	RH-EX0879CEZZ	J	Zener Diode, 12V	AD
D6004	RH-EX0879CEZZ	J	Zener Diode, 12V	AD
D6005	RH-EX0879CEZZ	J	Zener Diode, 12V	AD
D6006	RH-EX0879CEZZ	J	Zener Diode, 12V	AD
D6007	VHDMA153///-1	J	Diode MA153	AB
D6009	VHD1SS355//-1	J	Diode 1SS355	AB

COILS AND FILTERS

L6001	VP-1M270K3R8N	J	Peaking Coil 27µH	AC
L6002	VP-1M330K4R2N	J	Peaking Coil 33µH	AC
L6003	VP-1M330K4R2N	J	Peaking Coil 33µH	AC
FL6002	RFiLN0018GEZZ	J	Filter	AD
FL6003	RFiLN0018GEZZ	J	Filter	AD
FL6004	RFiLN0018GEZZ	J	Filter	AD
FL6005	RFiLN0122CEZZ	J	Filter	AD
FL6006	RFiLN0122CEZZ	J	Filter	AD
FL6009	RFiLN0122CEZZ	J	Filter	AD
FL6010	RFiLN0122CEZZ	J	Filter	AD
FL6011	RCiLF0316CEZZ	J	Filter	AG
FL6012	RCiLF0316CEZZ	J	Filter	AG

CAPACITORS

C6001	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6006	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C6007	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6008	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6010	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6011	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6013	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6014	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6015	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6016	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6017	VCEAPF0JW107M	J	100	6.3V	Electrolytic	AC
C6018	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6019	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6020	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6021	VCEAPF1CW106M	J	10	16V	Electrolytic	AB
C6022	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C6023	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C6024	VCCCCY1HH270J	J	27p	50V	Ceramic	AA
C6025	VCEAPF1CW226M	J	22	16V	Electrolytic	AB
C6027	VCE9PF1CW106M	J	10	16V	Elect.(N.P)	AB
C6029	VCKYCY1HB103K	J	0.01	50V	Ceramic	AA
C6030	VCEAPF1HW105M	J	1	50V	Electrolytic	AB
C6031	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6035	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6037	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C6038	VCEAPF0JW226M	J	22	6.3V	Electrolytic	AB
C6039	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA
C6040	VCKYCY1EF104Z	J	0.1	25V	Ceramic	AA

RESISTORS

R6001	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA

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VIDEO BOARD UNIT (Cotinued)

Ref. No.	Part No.	★	Description			Code
R6002	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R6003	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R6004	VRS-CY1JF100J	J	10	1/16W	Metal Oxide	AA
R6005	VRS-TQ2BD750J	J	75	1/8W	Metal Oxide	AA
R6006	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R6008	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R6009	VRS-CY1JF000J	J	0	1/16W	Metal Oxide	AA
R6010	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R6015	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R6016	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R6017	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R6018	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R6019	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R6020	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R6021	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R6022	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R6035	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6036	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6037	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6038	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6039	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6040	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6041	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6042	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6043	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6044	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6045	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6046	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6047	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6049	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R6050	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R6051	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6052	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R6053	VRS-CY1JF754J	J	750k	1/16W	Metal Oxide	AA
R6054	VRS-CY1JF473J	J	47k	1/16W	Metal Oxide	AA
R6055	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R6056	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R6057	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R6058	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R6059	VRS-CY1JF273J	J	27k	1/16W	Metal Oxide	AA
R6060	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R6061	VRS-CY1JF560J	J	56	1/16W	Metal Oxide	AA
R6062	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R6063	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R6064	VRS-CY1JF393J	J	39k	1/16W	Metal Oxide	AA
R6069	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R6070	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R6071	VRS-CY1JF152J	J	1.5k	1/16W	Metal Oxide	AA
R6072	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R6073	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R6074	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R6075	VRS-CY1JF153J	J	15k	1/16W	Metal Oxide	AA
R6081	VRS-CY1JF185J	J	1.8M	1/16W	Metal Oxide	AE
R6082	VRS-CY1JF563J	J	56k	1/16W	Metal Oxide	AA
R6085	VRS-CY1JF121J	J	120	1/16W	Metal Oxide	AA
R6087	VRS-TQ2BD000J	J	0	1/16W	Metal Oxide	AA
R6088	VRS-TQ2BD000J	J	0	1/16W	Metal Oxide	AA
R6089	VRS-CY1JF123J	J	12k	1/16W	Metal Oxide	AA
R6090	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R6091	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R6092	VRS-CY1JF224J	J	220k	1/16W	Metal Oxide	AA
R6094	VRS-CY1JF392J	J	3.9k	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

FB6001	RBLN-0067CEZZ	J	Ferrite Bead	AC
FB6013	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6014	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6015	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6016	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6017	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6018	RBLN-0059CEZZ	J	Ferrite Bead	AB
FB6019	RBLN-0059CEZZ	J	Ferrite Bead	AB
J6001	QJAKG0039CEZZ	J	A/V Input-1	AG
J6002	QJAKF0050CEZZ	J	Audio Input-2	AG
J6003	QSOCD0443CEZZ	J	S-Video Input	AG
SC6001	QSOCZ3043CEZZ	J	Socket, 30-pin (VS)	AG
	PSLDM9165CEFW	J	Shield	AG

CTANZ0711CE01
COMPUTER CONTROL CABLE UNIT

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUITS				
IC7001	VHiTC7W08F/-1	J	I.C.	AD
IC7006	VHiUPD4721G-1	J	I.C.	AQ
IC7007	RH-iX2955CEZZ	J	I.C.	AT
IC7008	RH-iX3015CEN2	J	I.C.	AV
TRANSISTORS				
Q7001	VS2SC2412KQ-1	J	2SC2412KQ	AA
Q7002	VS2SA1037KQ-1	J	2SA1037KQ	AA
DIODES				
D7001	—	–	Zener Diode 5.6V	—
D7002	—	–	Zener Diode 5.6V	—
D7003	—	–	Zener Diode 5.6V	—
D7007	VHDMA152WA/-1	J	Diode MA152WA	AA
D7008	VHDMA152WA/-1	J	Diode MA152WA	AA
D7009	VHDMA3120WA-1	J	Zener Diode 12V	AK
D7011	VHDMA3120WA-1	J	Zener Diode 12V	AK
D7013	VHDMA3120WA-1	J	Zener Diode 12V	AK
D7015	RH-EX0228CEZZ	J	Zener Diode 5.6V	AB
D7016	VHDMA3120WA-1	J	Zener Diode 12V	AK
D7018	VHDMA3120WA-1	J	Zener Diode 12V	AK
D7019	VHDMA3120WA-1	J	Zener Diode 12V	AK
D7025	VHDMA3120WA-1	J	Zener Diode 12V	AK
D7026	VHDMA3120WA-1	J	Zener Diode 12V	AK
D7027	VHDMA152WA/-1	J	Diode MA152WA	AA
D7031	VHDMA3120WA-1	J	Zener Diode 12V	AK
D7033	VHDMA3120WA-1	J	Zener Diode 12V	AK
FILTER				
CF7001	RFiLC0055TAZZ	J	Ceramic Filter 4MHz	AE
CAPACITORS				
C7001	VCEAPF0JW476M	J	47 6.3V Electrolytic	AB
C7002	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C7017	VCEAPH1HW225M	J	2.2 50V Electrolytic	AB
C7018	VCEAPH1HW225M	J	2.2 50V Electrolytic	AB
C7019	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C7020	VCEAPH1HW225M	J	2.2 50V Electrolytic	AB
C7021	VCEAPH1HW225M	J	2.2 50V Electrolytic	AB
C7022	VCCCCY1HH221J	J	220p 50V Ceramic	AA
C7023	VCCCCY1HH221J	J	220p 50V Ceramic	AA
C7024	VCEAPF0JW107M	J	100 6.3V Electrolytic	AC
C7025	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
C7026	VCKYCY1CF104Z	J	0.1 16V Ceramic	AA
RESISTORS				
R3037	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R7001	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R7002	VRS-CR3AD101J	J	100 1W Metal Oxide	AC
R7003	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R7004	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R7005	VRS-CR3AD101J	J	100 1W Metal Oxide	AC
R7006	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R7007	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R7008	VRS-TV1JD101J	J	100 1/10W Metal Oxide	AA
R7009	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R7010	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R7011	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R7012	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R7013	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R7014	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R7015	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA
R7032	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R7033	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R7034	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R7035	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R7036	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R7038	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R7039	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R7040	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R7041	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R7042	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R7043	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R7044	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R7045	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R7046	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R7047	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R7048	VRS-CY1JF000J	J	0 1/16W Metal Oxide	AA
R7090	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R7091	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
MISCELLANEOUS PARTS				
FB7001	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7002	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7003	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7004	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7005	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7006	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7007	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7008	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7009	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7010	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7011	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7012	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7013	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7014	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7015	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7016	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7017	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7018	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7019	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7020	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7021	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7022	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7023	RBLN-0058TAZZ	J	Ferrite Bead	AC
FB7024	RBLN-0058TAZZ	J	Ferrite Bead	AC
J7004	QSOCN0437FJZZ	J	RS-232C Terminal	AM
J7005	QSOCN0438FJZZ	J	Mouse Input Terminal	AM
J7006	QSOCD0902CEZZ	J	Mouse Input Terminal	AL
P7001	QPLGN0978GEZZ	J	Plug 9-pin	AC

RDENC0289CEZZ
POWER UNIT

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUITS				
⚠ IC701	9FJ0F01910140	J	AN8032	AF
⚠ IC702	9FJ0F09001030	J	Power Module MA3830F	AT
IC751	9FJ0F01110285	J	TA76431S	AG
TRANSISTORS				
⚠ Q701	9FJ0Q11001590	J	2SK2837	AU
Q702	9FJ0Q09001021	J	RN1201T	AC
Q751	9FJ0Q09001235	J	RN2223T	AD
Q752	9FJ0Q09001021	J	RN1201T	AC
Q753	9FJ0Q09010001	J	RN2201	AC
Q754	9FJ0Q09001021	J	RN1201T	AC
Q755	9FJ0Q02001071	J	2SC2785JT	AD
DIODES				
⚠ D701	9FJ0D13001152	J	Bridge Diode D4SB80	AH
⚠ D702	9FJ0D26010080	J	Diode FMG36S	AL
D703	9FJ0D01010195	J	Diode AU01V0	AD
D704	9FJ0D01001115	J	Diode AU01Z	AD
D705	9FJ0D01001115	J	Diode AU01Z	AD
D706	9FJ0D00001005	J	Diode 1SS119T	AB
D707	9FJ0D01001115	J	Diode AU01Z	AD
D751	9FJ0D24001070	J	Diode FMB26L	AK
D752	9FJ0D00001005	J	Diode 1SS119T	AB
D753	9FJ0D24000062	J	Diode FMB-24L	AH
D754	9FJ0D23010020	J	Diode FMX12S	AG
D755	9FJ0D01010065	J	Diode AU01AV0	AC
D756	9FJ0D01001115	J	Diode AU01Z	AD
D758	9FJ0D00001005	J	Diode 1SS119T	AB
D760	9FJ0D01000340	J	Diode RU2	AE
D761	9FJ0D00001005	J	Diode 1SS119T	AB
ZD701	9FJ0D31182625	J	Zener Diode RD36ESAB2	AC
ZD702	9FJ0D31101465	J	Zener Diode RD5.1ESAB2	AC
ZD751	9FJ0D31101605	J	Zener Diode RD15ESAB2	AC
ZD754	9FJ0D31103185	J	Zener Diode RD7.5ESAB2	AC
ZD756	9FJ0D31103185	J	Zener Diode RD7.5ESAB2	AC
ZD757	9FJ0D31101565	J	Zener Diode RD10ESAB2	AC
NR701	9FJ0F20001280	J	ENE471D10A	AD
PACKAGED CIRCUITS				
⚠ PC701	9FJ0F10010970	J	Photo Coupler PC123Y2	AG
⚠ PC702	9FJ0F10010930	J	Photo Coupler TLP721D4GR	AG
COILS AND TRANSFORMER				
⚠ L701	9FJ0L08201000	J	Inductor AFP10-60-080	AK
⚠ L702	9FJ0L08001650	J	Inductor 800165	AR
L751	9FJ0L08001675	J	Inductor 5.6µH	AE
L752	9FJ0L08001710	J	Inductor 2.2µH	AE
L753	9FJ0L08001675	J	Inductor 5.6µH	AE
L754	9FJ0L08001720	J	Inductor 22µH	AE
⚠ T701	9FJ0L00010300	J	Inverter Trans. 000194	AR
CONTROLS				
VR722	9FJ0R60001255	J	1k (B) EVNDXAA03B13	AE
VR751	9FJ0R60001255	J	1k (B) EVNDXAA03B13	AE
CAPACITORS				
⚠ C701	9FJ0C32410020	J	1 400V M.Polyester	AK
⚠ C702	9FJ0C32410040	J	2.2 400V M.Polyester	AN
⚠ C703	9FJ0C50003070	J	1000p 250V Ceramic	AD
⚠ C704	9FJ0C50003455	J	470p 1kV Ceramic	AK
C705	9FJ0C11001365	J	4700p 50V Polyester	AC
C706	9FJ0C01401635	J	47 35V Electrolytic	AD
C707	9FJ0C71001305	J	0.47 50V Mylar	AD
C708	9FJ0C11001055	J	1000p 50V Polyester	AC
⚠ C709	9FJ0C02801583	J	150 400V Electrolytic	AR
C711	9FJ0C71001235	J	0.1 50V Mylar	AC
C712	9FJ0C50003245	J	1500p 2kV Ceramic	AE
C713	9FJ0C11001035	J	0.047 50V Polyester	AC
C714	9FJ0C11001365	J	4700p 50V Polyester	AC
C715	9FJ0C11001105	J	0.01 50V Polyester	AC
C716	9FJ0C11001015	J	0.033 50V Polyester	AC
C717	9FJ0C50003455	J	470p 1kV Ceramic	AK
C750	9FJ0C50010815	J	100p 1kV Ceramic	AC
C751	9FJ0C01302100	J	1000 25V Electrolytic	AG
C752	9FJ0C01510535	J	1 50V Electrolytic	AD
C753	9FJ0C01502445	J	10 50V Electrolytic	AC
C755	9FJ0C71001235	J	0.1 50V Mylar	AC
C756	9FJ0C50010815	J	100p 1kV Ceramic	AC
C757	9FJ0C01102030	J	3300 10V Electrolytic	AH
C760	9FJ0C01502445	J	10 50V Electrolytic	AC
C763	9FJ0C71001235	J	0.1 50V Mylar	AC
C764	9FJ0C01302115	J	470 25V Electrolytic	AE
C765	9FJ0C01502445	J	10 50V Electrolytic	AC
C766	9FJ0C01302115	J	470 25V Electrolytic	AE
C767	9FJ0C01502685	J	33 50V Electrolytic	AC
C768	9FJ0C50010815	J	100p 1kV Ceramic	AC
RESISTORS				
⚠ R702	9FJ0R32001005	J	15M 1/2W Solid	AD
R703	9FJ0R30001685	J	910k 1/4W Solid	AC
R704	9FJ0R30001585	J	360k 1/4W Solid	AC
R706	9FJ0R00101295	J	22k 1/4W Carbon	AA
R707	9FJ0R00101275	J	18k 1/4W Carbon	AA
R708	9FJ0R81002285	J	100 1/4W Metal Film	AB
R710	9FJ0R00100855	J	330 1/4W Carbon	AB
R711	9FJ0R22100534	J	0.22 5W Cement	AE
R712	9FJ0R00101695	J	1M 1/4W Carbon	AA
R713	9FJ0R17070491	J	10 2W Metal Oxide	AC
R714	9FJ0R30001625	J	510k 1/4W Solid	AC
R715	9FJ0R30001665	J	750k 1/4W Solid	AC
R718	9FJ0R81004435	J	9.1k 1/4W Metal Film	AB
R719	9FJ0R30001625	J	510k 1/4W Solid	AC
R720	9FJ0R30001665	J	750k 1/4W Solid	AC
R723	9FJ0R81010235	J	8.2k 1/4W Metal Film	AB
R724	9FJ0R16080095	J	0.22 1W Metal Oxide	AB
R725	9FJ0R11002075	J	390k 1W Special	AC
R729	9FJ0R11002115	J	470k 1W Special	AC
R733	9FJ0R17070371	J	3.3 2W Metal Oxide	AC
R734	9FJ0R00100495	J	10 1/4W Carbon	AB
R735	9FJ0R17070651	J	47 2W Metal Oxide	AD
R736	9FJ0R81003755	J	200 1/4W Metal Film	AB
R737	9FJ0R00100495	J	10 1/4W Carbon	AB
R738	9FJ0R00101695	J	1M 1/4W Carbon	AA
R740	9FJ0R00100695	J	68 1/4W Carbon	AB
R741	9FJ0R00100495	J	10 1/4W Carbon	AB
R750	9FJ0R00100815	J	220 1/4W Carbon	AB
R751	9FJ0R00100975	J	1k 1/4W Carbon	AB
R752	9FJ0R00100975	J	1k 1/4W Carbon	AB
R753	9FJ0R00100975	J	1k 1/4W Carbon	AB
R754	9FJ0R00101015	J	1.5k 1/4W Carbon	AB
R755	9FJ0R81201035	J	0.68 1/4W Fuse Resistor	AD
R756	9FJ0R00101295	J	22k 1/4W Carbon	AA
R757	9FJ0R00101215	J	10k 1/4W Carbon	AB
R758	9FJ0R00101055	J	2.2k 1/4W Carbon	AB
R759	9FJ0R00101215	J	10k 1/4W Carbon	AB
R760	9FJ0R00101135	J	4.7k 1/4W Carbon	AB
R771	9FJ0R81201035	J	0.68 1/4W Fuse Resistor	AD
⚠ RT701	9FJ0R90001210	J	Power Thermistor S5R1K12D315JIZLS	AF
⚠ RT702	9FJ0R90001210	J	Power Thermistor S5R1K12D315JIZLS	AF
RT752	9FJ0R90001190	J	PTH9M04BD222TS2F333	AF
MISCELLANEOUS PARTS				
	9FJ0G10002140	J	Connector, 3-pin (FAN)	AE
	9FJ0i10007180	J	Wire Harness (PA)	AK
	9FJ0i10007190	J	Wire Harness (PL)	AL
	9FJ0i10007200	J	Wire Harness (EA)	AW

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PC I/F UNIT

Ref. No.	Part No.	★	Description	Code
INTEGRATED CIRCUITS				
IC1	9DK001-10052	J	HD64F3334YF	BL
IC2	9DK001-15035	J	PST600CMT	AM
IC3	9DK001-11015	J	AT24C64N-10SC	AZ
IC4	9DK001-15052	J	M52722SP	AX
IC5	9DK001-15027	J	NJM3403AV	AQ
IC9	9DK001-15049	J	CXA3026Q	BP
IC10	9DK001-15049	J	CXA3026Q	BP
IC11	9DK001-15049	J	CXA3026Q	BP
IC12	9DK001-15051	J	M62352FP	AS
IC13	9DK001-15053	J	TL431CPS	AL
IC14	9DK001-15027	J	NJM3403AV	AQ
IC15	9DK001-15028	J	ICS1522M	BS
IC20	RH-iX3342CEZZ	J	I.C.	BT
IC25	RH-iX3082CEZZ	J	I.C.	BR
IC26	9DK001-15054	J	TLC2933IPW	AX
IC29	9DK001-15027	J	NJM3403AV	AQ
IC30	9DK001-15050	J	MB40950PFQ	BF
IC31	9DK001-15050	J	MB40950PFQ	BF
IC37	RH-iX3154CEZZ	J	I.C.	AZ
IC40	9DK001-15038	J	PQ05TZ11	AR
IC41	9DK001-15046	J	PQ12TZ51	AR
IC42	9DK001-15038	J	PQ05TZ11	AR
IC43	9DK001-15038	J	PQ05TZ11	AR
IC44	9DK001-15045	J	NJU7211U20	AM
IC46	9DK001-15047	J	PQ3RF23	AT
IC54	9DK001-12044	J	SN74F08NS	AH
IC55	9DK001-12052	J	EPM7032LC	BC
TRANSISTORS				
Q1	9DK001-20022	J	2SC2712	AD
Q4	9DK001-20022	J	2SC2712	AD
Q8	9DK001-20009	J	2SA1162	AF
Q9	9DK001-20022	J	2SC2712	AD
Q10	9DK001-20022	J	2SC2712	AD
Q11	9DK001-20022	J	2SC2712	AD
Q12	9DK001-20022	J	2SC2712	AD
Q13	9DK001-20009	J	2SA1162	AF
Q14	9DK001-20009	J	2SA1162	AF
Q15	9DK001-20009	J	2SA1162	AF
Q16	9DK001-20009	J	2SA1162	AF
Q17	9DK001-20009	J	2SA1162	AF
Q18	9DK001-20009	J	2SA1162	AF
Q19	9DK001-20009	J	2SA1162	AF
Q20	9DK001-20009	J	2SA1162	AF
Q21	9DK001-20009	J	2SA1162	AF
Q22	9DK001-20009	J	2SA1162	AF
Q23	9DK001-20009	J	2SA1162	AF
Q24	9DK001-20009	J	2SA1162	AF
Q25	9DK001-20009	J	2SA1162	AF
Q26	9DK001-20022	J	2SC2712	AD
Q27	9DK001-20022	J	2SC2712	AD
Q28	9DK001-20022	J	2SC2712	AD
Q29	9DK001-20015	J	2SC3735	AF
Q30	9DK001-20015	J	2SC3735	AF
Q31	9DK001-20015	J	2SC3735	AF
DIODES				
D11	9DK001-30001	J	Diode 1SS193	AC
D12	9DK001-30001	J	Diode 1SS193	AC
PACKAGED CIRCUIT				
X2	9DK001-80010	J	Crystal, 10MHz	AM
FILTERS				
FL1	9DK001-82012	J	Filter, NFM61R10T102	AK
FL3	9DK001-82012	J	Filter, NFM61R10T102	AK
CAPACITORS				
C1	9DK001-42069	J	0.1 25V Ceramic	AB
C2	9DK001-42069	J	0.1 25V Ceramic	AB
C3	9DK001-42069	J	0.1 25V Ceramic	AB
C4	9DK001-42069	J	0.1 25V Ceramic	AB
C5	9DK001-42068	J	0.01 50V Ceramic	AC
C6	9DK001-42070	J	1 16V Ceramic	AD
C7	9DK001-42068	J	0.01 50V Ceramic	AC
C8	9DK001-42070	J	1 16V Ceramic	AD
C9	9DK001-42069	J	0.1 25V Ceramic	AB
C11	9DK001-42069	J	0.1 25V Ceramic	AB
C12	9DK001-40052	J	47 16V Electrolytic	AV
C13	9DK001-40052	J	47 16V Electrolytic	AV
C14	9DK001-40067	J	10 16V Electrolytic	AF
C15	9DK001-42068	J	0.01 50V Ceramic	AC
C16	9DK001-40067	J	10 16V Electrolytic	AF
C17	9DK001-42068	J	0.01 50V Ceramic	AC
C18	9DK001-40067	J	10 16V Electrolytic	AF
C19	9DK001-42068	J	0.01 50V Ceramic	AC
C20	9DK001-42069	J	0.1 25V Ceramic	AB
C21	9DK001-42069	J	0.1 25V Ceramic	AB
C22	9DK001-42069	J	0.1 25V Ceramic	AB
C23	9DK001-42069	J	0.1 25V Ceramic	AB
C24	9DK001-42069	J	0.1 25V Ceramic	AB
C25	9DK001-42069	J	0.1 25V Ceramic	AB
C26	9DK001-42069	J	0.1 25V Ceramic	AB
C27	9DK001-40066	J	2.2 35V Electrolytic	AF
C28	9DK001-42069	J	0.1 25V Ceramic	AB
C29	9DK001-40066	J	2.2 35V Electrolytic	AF
C30	9DK001-42069	J	0.1 25V Ceramic	AB
C31	9DK001-40066	J	2.2 35V Electrolytic	AF
C32	9DK001-42069	J	0.1 25V Ceramic	AB
C33	9DK001-40052	J	47 16V Electrolytic	AV
C38	9DK001-42069	J	0.1 25V Ceramic	AB
C39	9DK001-42069	J	0.1 25V Ceramic	AB
C40	9DK001-42069	J	0.1 25V Ceramic	AB
C41	9DK001-42069	J	0.1 25V Ceramic	AB
C42	9DK001-42069	J	0.1 25V Ceramic	AB
C43	9DK001-42069	J	0.1 25V Ceramic	AB
C44	9DK001-42069	J	0.1 25V Ceramic	AB
C45	9DK001-40065	J	1 50V Electrolytic	AF
C46	9DK001-42069	J	0.1 25V Ceramic	AB
C47	9DK001-42069	J	0.1 25V Ceramic	AB
C48	9DK001-42069	J	0.1 25V Ceramic	AB
C49	9DK001-42069	J	0.1 25V Ceramic	AB
C50	9DK001-40065	J	1 50V Electrolytic	AF
C51	9DK001-42069	J	0.1 25V Ceramic	AB
C52	9DK001-40065	J	1 50V Electrolytic	AF
C53	9DK001-42069	J	0.1 25V Ceramic	AB
C54	9DK001-42069	J	0.1 25V Ceramic	AB
C55	9DK001-42069	J	0.1 25V Ceramic	AB
C56	9DK001-42069	J	0.1 25V Ceramic	AB
C57	9DK001-40065	J	1 50V Electrolytic	AF
C58	9DK001-42069	J	0.1 25V Ceramic	AB
C59	9DK001-40065	J	1 50V Electrolytic	AF
C60	9DK001-42069	J	0.1 25V Ceramic	AB
C61	9DK001-42069	J	0.1 25V Ceramic	AB
C62	9DK001-42069	J	0.1 25V Ceramic	AB
C63	9DK001-42069	J	0.1 25V Ceramic	AB
C64	9DK001-40065	J	1 50V Electrolytic	AF
C65	9DK001-42069	J	0.1 25V Ceramic	AB
C66	9DK001-42069	J	0.1 25V Ceramic	AB
C67	9DK001-42069	J	0.1 25V Ceramic	AB
C68	9DK001-40067	J	10 16V Electrolytic	AF
C69	9DK001-42069	J	0.1 25V Ceramic	AB
C70	9DK001-42069	J	0.1 25V Ceramic	AB
C71	9DK001-42069	J	0.1 25V Ceramic	AB
C72	9DK001-42069	J	0.1 25V Ceramic	AB
C73	9DK001-40067	J	10 16V Electrolytic	AF
C74	9DK001-42069	J	0.1 25V Ceramic	AB
C75	9DK001-42069	J	0.1 25V Ceramic	AB
C76	9DK001-40067	J	10 16V Electrolytic	AF
C77	9DK001-42069	J	0.1 25V Ceramic	AB
C78	9DK001-42069	J	0.1 25V Ceramic	AB
C79	9DK001-42069	J	0.1 25V Ceramic	AB
C80	9DK001-42069	J	0.1 25V Ceramic	AB
C81	9DK001-40067	J	10 16V Electrolytic	AF
C82	9DK001-42069	J	0.1 25V Ceramic	AB

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PC I/F UNIT (Cotinued)

Ref. No.	Part No.	★	Description			Code
C83	9DK001-42069	J	0.1	25V	Ceramic	AB
C84	9DK001-40067	J	10	16V	Electrolytic	AF
C85	9DK001-42069	J	0.1	25V	Ceramic	AB
C86	9DK001-42069	J	0.1	25V	Ceramic	AB
C87	9DK001-42069	J	0.1	25V	Ceramic	AB
C88	9DK001-42069	J	0.1	25V	Ceramic	AB
C89	9DK001-40067	J	10	16V	Electrolytic	AF
C90	9DK001-42087	J	2200p	50V	Ceramic	AC
C91	9DK001-42092	J	470p	50V	Ceramic	AC
C92	9DK001-40067	J	10	16V	Electrolytic	AF
C93	9DK001-42069	J	0.1	25V	Ceramic	AB
C94	9DK001-40067	J	10	16V	Electrolytic	AF
C95	9DK001-42069	J	0.1	25V	Ceramic	AB
C96	9DK001-42069	J	0.1	25V	Ceramic	AB
C97	9DK001-42069	J	0.1	25V	Ceramic	AB
C98	9DK001-42069	J	0.1	25V	Ceramic	AB
C100	9DK001-42069	J	0.1	25V	Ceramic	AB
C101	9DK001-42069	J	0.1	25V	Ceramic	AB
C102	9DK001-42069	J	0.1	25V	Ceramic	AB
C103	9DK001-42069	J	0.1	25V	Ceramic	AB
C104	9DK001-42069	J	0.1	25V	Ceramic	AB
C105	9DK001-42069	J	0.1	25V	Ceramic	AB
C106	9DK001-42069	J	0.1	25V	Ceramic	AB
C107	9DK001-42069	J	0.1	25V	Ceramic	AB
C108	9DK001-42069	J	0.1	25V	Ceramic	AB
C109	9DK001-42069	J	0.1	25V	Ceramic	AB
C110	9DK001-42069	J	0.1	25V	Ceramic	AB
C111	9DK001-42069	J	0.1	25V	Ceramic	AB
C112	9DK001-42069	J	0.1	25V	Ceramic	AB
C113	9DK001-42069	J	0.1	25V	Ceramic	AB
C114	9DK001-42069	J	0.1	25V	Ceramic	AB
C115	9DK001-42069	J	0.1	25V	Ceramic	AB
C130	9DK001-42085	J	30p	50V	Ceramic	AC
C131	9DK001-42085	J	30p	50V	Ceramic	AC
C132	9DK001-42069	J	0.1	25V	Ceramic	AB
C133	9DK001-42069	J	0.1	25V	Ceramic	AB
C134	9DK001-42069	J	0.1	25V	Ceramic	AB
C135	9DK001-42069	J	0.1	25V	Ceramic	AB
C136	9DK001-42069	J	0.1	25V	Ceramic	AB
C137	9DK001-42069	J	0.1	25V	Ceramic	AB
C138	9DK001-42069	J	0.1	25V	Ceramic	AB
C139	9DK001-42069	J	0.1	25V	Ceramic	AB
C140	9DK001-42069	J	0.1	25V	Ceramic	AB
C141	9DK001-42069	J	0.1	25V	Ceramic	AB
C142	9DK001-42069	J	0.1	25V	Ceramic	AB
C143	9DK001-42069	J	0.1	25V	Ceramic	AB
C144	9DK001-43017	J	0.1	35V	Tantalum	AF
C145	9DK001-42069	J	0.1	25V	Ceramic	AB
C146	9DK001-42069	J	0.1	25V	Ceramic	AB
C150	9DK001-42069	J	0.1	25V	Ceramic	AB
C151	9DK001-42069	J	0.1	25V	Ceramic	AB
C152	9DK001-42069	J	0.1	25V	Ceramic	AB
C153	9DK001-42069	J	0.1	25V	Ceramic	AB
C154	9DK001-42069	J	0.1	25V	Ceramic	AB
C155	9DK001-42069	J	0.1	25V	Ceramic	AB
C159	9DK001-42069	J	0.1	25V	Ceramic	AB
C160	9DK001-42069	J	0.1	25V	Ceramic	AB
C205	9DK001-42069	J	0.1	25V	Ceramic	AB
C206	9DK001-42069	J	0.1	25V	Ceramic	AB
C207	9DK001-42069	J	0.1	25V	Ceramic	AB
C208	9DK001-40065	J	1	50V	Electrolytic	AF
C220	9DK001-42069	J	0.1	25V	Ceramic	AB
C232	9DK001-42069	J	0.1	25V	Ceramic	AB
C233	9DK001-42069	J	0.1	25V	Ceramic	AB
C234	9DK001-40070	J	100	16V	Electrolytic	AH
C235	9DK001-40071	J	100	25V	Electrolytic	AG
C236	9DK001-42069	J	0.1	25V	Ceramic	AB
C237	9DK001-42069	J	0.1	25V	Ceramic	AB
C238	9DK001-40070	J	100	16V	Electrolytic	AH
C239	9DK001-40070	J	100	16V	Electrolytic	AH
C240	9DK001-42069	J	0.1	25V	Ceramic	AB
C241	9DK001-42069	J	0.1	25V	Ceramic	AB
C242	9DK001-40070	J	100	16V	Electrolytic	AH
C243	9DK001-40070	J	100	16V	Electrolytic	AH
C244	9DK001-42069	J	0.1	25V	Ceramic	AB
C245	9DK001-42069	J	0.1	25V	Ceramic	AB
C246	9DK001-40070	J	100	16V	Electrolytic	AH
C247	9DK001-40070	J	100	16V	Electrolytic	AH
C248	9DK001-42069	J	0.1	25V	Ceramic	AB
C249	9DK001-42069	J	0.1	25V	Ceramic	AB
C250	9DK001-40068	J	22	16V	Electrolytic	AG
C253	9DK001-42069	J	0.1	25V	Ceramic	AB
C254	9DK001-40070	J	100	16V	Electrolytic	AH
C256	9DK001-40070	J	100	16V	Electrolytic	AH
C257	9DK001-42069	J	0.1	25V	Ceramic	AB
C266	9DK001-42069	J	0.1	25V	Ceramic	AB
C267	9DK001-42069	J	0.1	25V	Ceramic	AB
C268	9DK001-40067	J	10	16V	Electrolytic	AF
C269	9DK001-40067	J	10	16V	Electrolytic	AF
C271	9DK001-40067	J	10	16V	Electrolytic	AF
C272	9DK001-42083	J	5p	50V	Ceramic	AC
C273	9DK001-42063	J	10p	50V	Ceramic	AC
C274	9DK001-42083	J	5p	50V	Ceramic	AC
C275	9DK001-42069	J	0.1	25V	Ceramic	AB
C276	9DK001-42069	J	0.1	25V	Ceramic	AB
C277	9DK001-40067	J	10	16V	Electrolytic	AF
C278	9DK001-42069	J	0.1	25V	Ceramic	AB
C279	9DK001-40067	J	10	16V	Electrolytic	AF
C280	9DK001-42069	J	0.1	25V	Ceramic	AB
C281	9DK001-42069	J	0.1	25V	Ceramic	AB
C282	9DK001-42069	J	0.1	25V	Ceramic	AB
C283	9DK001-42069	J	0.1	25V	Ceramic	AB
C285	9DK001-42069	J	0.1	25V	Ceramic	AB
C288	9DK001-42084	J	22p	50V	Ceramic	AC
C289	9DK001-40069	J	100	6.3V	Electrolytic	AG
C290	9DK001-40069	J	100	6.3V	Electrolytic	AG
C291	9DK001-42069	J	0.1	25V	Ceramic	AB
C292	9DK001-42069	J	0.1	25V	Ceramic	AB
C293	9DK001-42085	J	30p	50V	Ceramic	AC
C295	9DK001-42085	J	30p	50V	Ceramic	AC
C301	9DK001-42069	J	0.1	25V	Ceramic	AB
C302	9DK001-42069	J	0.1	25V	Ceramic	AB
C303	9DK001-42069	J	0.1	25V	Ceramic	AB
C304	9DK001-42069	J	0.1	25V	Ceramic	AB
C305	9DK001-42069	J	0.1	25V	Ceramic	AB
C306	9DK001-40067	J	10	16V	Electrolytic	AF
C307	9DK001-40067	J	10	16V	Electrolytic	AF
C308	9DK001-40069	J	100	6.3V	Electrolytic	AG

RESISTORS

R1	9DK001-50098	J	22k	1/10W	Chip2125	AB
R2	9DK001-50146	J	4.7k	1/10W	Chip2125	AB
R3	9DK001-50146	J	4.7k	1/10W	Chip2125	AB
R4	9DK001-50146	J	4.7k	1/10W	Chip2125	AB
R5	9DK001-50146	J	4.7k	1/10W	Chip2125	AB
R6	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R7	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R8	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R9	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R10	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R11	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R12	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R13	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R14	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R15	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R17	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R18	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R20	9DK001-50048	J	3.3k	1/10W	Chip2125	AB
R21	9DK001-50048	J	3.3k	1/10W	Chip2125	AB
R22	9DK001-50082	J	100	1/10W	Chip2125	AB
R23	9DK001-50082	J	100	1/10W	Chip2125	AB
R24	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R25	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R26	9DK001-51030	J	10k	1/16W	Resistor Array	AD
R27	9DK001-50096	J	10k	1/10W	Chip2125	AB
R28	9DK001-50141	J	22	1/10W	Chip2125	AB

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Ref. No.	Part No.	★			Description	Code
R29	9DK001-50141	J	22	1/10W	Chip2125	AB
R30	9DK001-50141	J	22	1/10W	Chip2125	AB
R31	9DK001-50104	J	330	1/10W	Chip2125	AB
R32	9DK001-50104	J	330	1/10W	Chip2125	AB
R33	9DK001-50104	J	330	1/10W	Chip2125	AB
R40	9DK001-50121	J	10	1/10W	Chip2125	AB
R41	9DK001-50121	J	10	1/10W	Chip2125	AB
R42	9DK001-50121	J	10	1/10W	Chip2125	AB
R43	9DK001-50082	J	100	1/10W	Chip2125	AB
R44	9DK001-50139	J	1.5k	1/10W	Chip2125	AC
R45	9DK001-50140	J	3.3k	1/10W	Chip2125	AC
R46	9DK001-50082	J	100	1/10W	Chip2125	AB
R47	9DK001-50082	J	100	1/10W	Chip2125	AB
R48	9DK001-50082	J	100	1/10W	Chip2125	AB
R49	9DK001-50048	J	3.3k	1/10W	Chip2125	AB
R50	9DK001-50091	J	2.2k	1/10W	Chip2125	AB
R51	9DK001-50048	J	3.3k	1/10W	Chip2125	AB
R52	9DK001-50048	J	3.3k	1/10W	Chip2125	AB
R53	9DK001-50048	J	3.3k	1/10W	Chip2125	AB
R54	9DK001-50145	J	820	1/10W	Chip2125	AB
R55	9DK001-50145	J	820	1/10W	Chip2125	AB
R56	9DK001-50145	J	820	1/10W	Chip2125	AB
R60	9DK001-50082	J	100	1/10W	Chip2125	AB
R61	9DK001-50082	J	100	1/10W	Chip2125	AB
R62	9DK001-50082	J	100	1/10W	Chip2125	AB
R63	9DK001-50044	J	68	1/10W	Chip2125	AB
R64	9DK001-50089	J	180	1/10W	Chip2125	AB
R65	9DK001-50044	J	68	1/10W	Chip2125	AB
R66	9DK001-50089	J	180	1/10W	Chip2125	AB
R67	9DK001-50091	J	2.2k	1/10W	Chip2125	AB
R68	9DK001-51029	J	10	1/16W	Resistor Array	AD
R69	9DK001-51029	J	10	1/16W	Resistor Array	AD
R70	9DK001-51029	J	10	1/16W	Resistor Array	AD
R71	9DK001-51029	J	10	1/16W	Resistor Array	AD
R72	9DK001-51029	J	10	1/16W	Resistor Array	AD
R73	9DK001-51029	J	10	1/16W	Resistor Array	AD
R74	9DK001-51029	J	10	1/16W	Resistor Array	AD
R75	9DK001-51029	J	10	1/16W	Resistor Array	AD
R76	9DK001-51029	J	10	1/16W	Resistor Array	AD
R77	9DK001-51029	J	10	1/16W	Resistor Array	AD
R78	9DK001-51029	J	10	1/16W	Resistor Array	AD
R79	9DK001-51029	J	10	1/16W	Resistor Array	AD
R80	9DK001-50142	J	47	1/10W	Chip2125	AB
R81	9DK001-50142	J	47	1/10W	Chip2125	AB
R82	9DK001-50142	J	47	1/10W	Chip2125	AB
R83	9DK001-50148	J	130k	1/10W	Chip2125	AB
R84	9DK001-50096	J	10k	1/10W	Chip2125	AB
R85	9DK001-50125	J	430	1/10W	Chip2125	AB
R86	9DK001-50096	J	10k	1/10W	Chip2125	AB
R87	9DK001-50096	J	10k	1/10W	Chip2125	AB
R88	9DK001-50096	J	10k	1/10W	Chip2125	AB
R89	9DK001-50096	J	10k	1/10W	Chip2125	AB
R90	9DK001-50096	J	10k	1/10W	Chip2125	AB
R91	9DK001-50096	J	10k	1/10W	Chip2125	AB
R92	9DK001-50096	J	10k	1/10W	Chip2125	AB
R93	9DK001-50082	J	100	1/10W	Chip2125	AB
R94	9DK001-50082	J	100	1/10W	Chip2125	AB
R95	9DK001-51029	J	10	1/16W	Resistor Array	AD
R96	9DK001-51029	J	10	1/16W	Resistor Array	AD
R97	9DK001-51029	J	10	1/16W	Resistor Array	AD
R98	9DK001-51029	J	10	1/16W	Resistor Array	AD
R99	9DK001-51029	J	10	1/16W	Resistor Array	AD
R100	9DK001-51029	J	10	1/16W	Resistor Array	AD
R104	9DK001-51029	J	10	1/16W	Resistor Array	AD
R105	9DK001-51029	J	10	1/16W	Resistor Array	AD
R106	9DK001-51029	J	10	1/16W	Resistor Array	AD
R107	9DK001-51029	J	10	1/16W	Resistor Array	AD
R108	9DK001-51029	J	10	1/16W	Resistor Array	AD
R109	9DK001-51029	J	10	1/16W	Resistor Array	AD
R110	9DK001-50082	J	100	1/10W	Chip2125	AB
R111	9DK001-50082	J	100	1/10W	Chip2125	AB
R112	9DK001-50096	J	10k	1/10W	Chip2125	AB
R137	9DK001-50143	J	200	1/10W	Chip2125	AB
R138	9DK001-50068	J	1M	1/10W	Chip2125	AB
R139	9DK001-50110	J	0	1/10W	Chip2125	AB
R146	9DK001-50044	J	68	1/10W	Chip2125	AB
R147	9DK001-50120	J	82	1/10W	Chip2125	AB
R150	9DK001-50043	J	56	1/10W	Chip2125	AB
R151	9DK001-50043	J	56	1/10W	Chip2125	AB
R153	9DK001-50043	J	56	1/10W	Chip2125	AB
R154	9DK001-50043	J	56	1/10W	Chip2125	AB
R155	9DK001-50043	J	56	1/10W	Chip2125	AB
R156	9DK001-50043	J	56	1/10W	Chip2125	AB
R159	9DK001-50043	J	56	1/10W	Chip2125	AB
R160	9DK001-50043	J	56	1/10W	Chip2125	AB
R162	9DK001-50092	J	2.7k	1/10W	Chip2125	AB
R163	9DK001-50103	J	270	1/10W	Chip2125	AB
R164	9DK001-50091	J	2.2k	1/10W	Chip2125	AB
R165	9DK001-50110	J	0	1/10W	Chip2125	AB
R167	9DK001-50121	J	10	1/10W	Chip2125	AB
R168	9DK001-50043	J	56	1/10W	Chip2125	AB
R169	9DK001-50043	J	56	1/10W	Chip2125	AB
R171	9DK001-50043	J	56	1/10W	Chip2125	AB
R172	9DK001-50043	J	56	1/10W	Chip2125	AB
R195	9DK001-50110	J	0	1/10W	Chip2125	AB
R196	9DK001-50082	J	100	1/10W	Chip2125	AB
R197	9DK001-50118	J	470	1/10W	Chip2125	AB
R198	9DK001-50102	J	220	1/10W	Chip2125	AB
R199	9DK001-50141	J	22	1/10W	Chip2125	AB
R200	9DK001-50141	J	22	1/10W	Chip2125	AB
R201	9DK001-50141	J	22	1/10W	Chip2125	AB
R202	9DK001-50141	J	22	1/10W	Chip2125	AB
R203	9DK001-50141	J	22	1/10W	Chip2125	AB
R205	9DK001-50043	J	56	1/10W	Chip2125	AB
R206	9DK001-50043	J	56	1/10W	Chip2125	AB
R207	9DK001-50043	J	56	1/10W	Chip2125	AB
R208	9DK001-50043	J	56	1/10W	Chip2125	AB
R209	9DK001-50043	J	56	1/10W	Chip2125	AB
R210	9DK001-50043	J	56	1/10W	Chip2125	AB
R213	9DK001-50043	J	56	1/10W	Chip2125	AB
R214	9DK001-50043	J	56	1/10W	Chip2125	AB
R215	9DK001-50096	J	10k	1/10W	Chip2125	AB
R216	9DK001-50096	J	10k	1/10W	Chip2125	AB
R217	9DK001-50096	J	10k	1/10W	Chip2125	AB
R218	9DK001-50096	J	10k	1/10W	Chip2125	AB
R219	9DK001-50062	J	1k	1/10W	Chip2125	AB
R220	9DK001-50104	J	330	1/10W	Chip2125	AB
R221	9DK001-50096	J	10k	1/10W	Chip2125	AB
R222	9DK001-50096	J	10k	1/10W	Chip2125	AB
R223	9DK001-50104	J	330	1/10W	Chip2125	AB
R224	9DK001-50096	J	10k	1/10W	Chip2125	AB
R225	9DK001-50026	J	47k	1/10W	Chip2125	AB
R229	9DK001-50144	J	560	1/10W	Chip2125	AB
R240	9DK001-50082	J	100	1/10W	Chip2125	AB
R242	9DK001-50147	J	5.6k	1/10W	Chip2125	AB
R243	9DK001-50096	J	10k	1/10W	Chip2125	AB
R244	9DK001-50082	J	100	1/10W	Chip2125	AB
R248	9DK001-50044	J	68	1/10W	Chip2125	AB
R249	9DK001-50089	J	180	1/10W	Chip2125	AB
R250	9DK001-50044	J	68	1/10W	Chip2125	AB
R251	9DK001-50089	J	180	1/10W	Chip2125	AB
R252	9DK001-50044	J	68	1/10W	Chip2125	AB
R253	9DK001-50089	J	180	1/10W	Chip2125	AB
R254	9DK001-50044	J	68	1/10W	Chip2125	AB
R255	9DK001-50089	J	180	1/10W	Chip2125	AB
R256	9DK001-50121	J	10	1/10W	Chip2125	AB
R257	9DK001-50121	J	10	1/10W	Chip2125	AB
R258	9DK001-50096	J	10k	1/10W	Chip2125	AB
R259	9DK001-50096	J	10k	1/10W	Chip2125	AB
R261	9DK001-50102	J	220	1/10W	Chip2125	AB
R262	9DK001-50143	J	200	1/10W	Chip2125	AB
R263	9DK001-50143	J	200	1/10W	Chip2125	AB
R264	9DK001-50044	J	68	1/10W	Chip2125	AB
R265	9DK001-50121	J	10	1/10W	Chip2125	AB
R266	9DK001-50043	J	56	1/10W	Chip2125	AB
R267	9DK001-50043	J	56	1/10W	Chip2125	AB

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Ref. No.	Part No.	★	Description			Code
R268	9DK001-50043	J	56	1/10W	Chip2125	AB
R269	9DK001-50043	J	56	1/10W	Chip2125	AB
R270	9DK001-50043	J	56	1/10W	Chip2125	AB
R271	9DK001-50043	J	56	1/10W	Chip2125	AB
R272	9DK001-50082	J	100	1/10W	Chip2125	AB
R273	9DK001-50082	J	100	1/10W	Chip2125	AB
R291	9DK001-50096	J	10k	1/10W	Chip2125	AB
R292	9DK001-50121	J	10	1/10W	Chip2125	AB
R293	9DK001-50121	J	10	1/10W	Chip2125	AB
R294	9DK001-50121	J	10	1/10W	Chip2125	AB
R295	9DK001-50096	J	10k	1/10W	Chip2125	AB
R296	9DK001-50144	J	560	1/10W	Chip2125	AB
R297	9DK001-50096	J	10k	1/10W	Chip2125	AB
R298	9DK001-50096	J	10k	1/10W	Chip2125	AB
R302	9DK001-50082	J	100	1/10W	Chip2125	AB
R303	9DK001-50082	J	100	1/10W	Chip2125	AB
R304	9DK001-50111	J	75	1/4W	Chip3216	AB
R305	9DK001-50111	J	75	1/4W	Chip3216	AB
R306	9DK001-50111	J	75	1/4W	Chip3216	AB
R307	9DK001-50089	J	180	1/10W	Chip2125	AB
R309	9DK001-50062	J	1k	1/10W	Chip2125	AB
R310	9DK001-50062	J	1k	1/10W	Chip2125	AB
R311	9DK001-50096	J	10k	1/10W	Chip2125	AB
R312	9DK001-50107	J	12k	1/10W	Chip2125	AB
R313	9DK001-50082	J	100	1/10W	Chip2125	AB
R314	9DK001-50118	J	470	1/10W	Chip2125	AB
R316	9DK001-50082	J	100	1/10W	Chip2125	AB
R317	9DK001-50118	J	470	1/10W	Chip2125	AB
R319	9DK001-50082	J	100	1/10W	Chip2125	AB
R320	9DK001-50118	J	470	1/10W	Chip2125	AB
R322	9DK001-50082	J	100	1/10W	Chip2125	AB
R323	9DK001-50118	J	470	1/10W	Chip2125	AB
R325	9DK001-50082	J	100	1/10W	Chip2125	AB
R326	9DK001-50118	J	470	1/10W	Chip2125	AB
R328	9DK001-50082	J	100	1/10W	Chip2125	AB
R329	9DK001-50118	J	470	1/10W	Chip2125	AB
R331	9DK001-50121	J	10	1/10W	Chip2125	AB
R332	9DK001-50121	J	10	1/10W	Chip2125	AB
R333	9DK001-50120	J	82	1/10W	Chip2125	AB
R334	9DK001-50121	J	10	1/10W	Chip2125	AB
R340	9DK001-50118	J	470	1/10W	Chip2125	AB
R341	9DK001-50118	J	470	1/10W	Chip2125	AB
R342	9DK001-50118	J	470	1/10W	Chip2125	AB
R343	9DK001-50118	J	470	1/10W	Chip2125	AB
R344	9DK001-50118	J	470	1/10W	Chip2125	AB
R345	9DK001-50118	J	470	1/10W	Chip2125	AB
R346	9DK001-50082	J	100	1/10W	Chip2125	AB
R347	9DK001-50082	J	100	1/10W	Chip2125	AB
R348	9DK001-50082	J	100	1/10W	Chip2125	AB
R349	9DK001-50111	J	75	1/4W	Chip3216	AB
R350	9DK001-50111	J	75	1/4W	Chip3216	AB
R351	9DK001-50111	J	75	1/4W	Chip3216	AB
R353	9DK001-50102	J	220	1/10W	Chip2125	AB
R354	9DK001-50145	J	820	1/10W	Chip2125	AB
R355	9DK001-50149	J	680	1/10W	Chip2125	AB
R356	9DK001-50110	J	0	1/10W	Chip2125	AB
R359	9DK001-50083	J	120	1/10W	Chip2125	AB

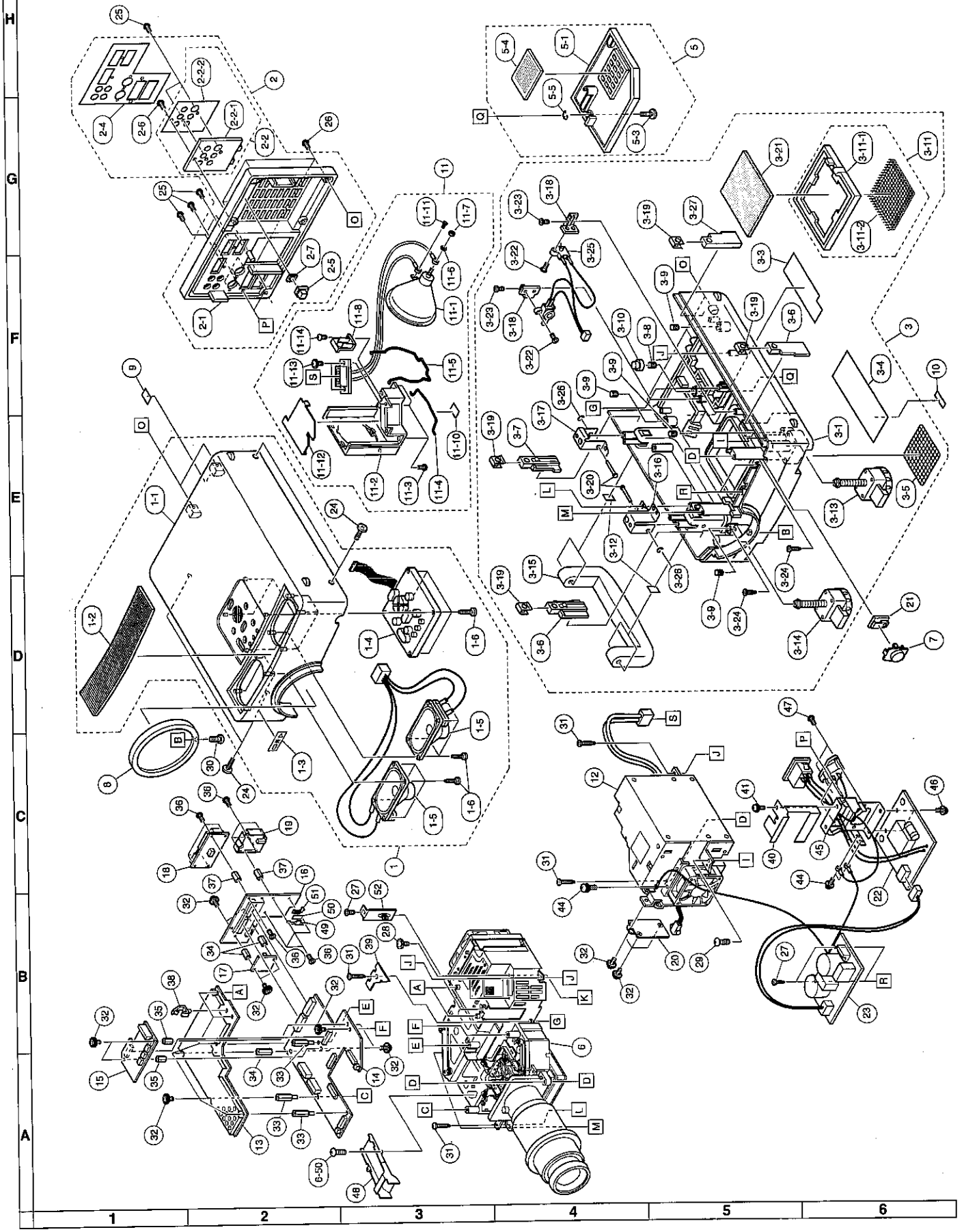
MISCELLANEOUS PARTS

FB1	9DK001-81016	J	Inductor BLM21A121S	AG
FB2	9DK001-81016	J	Inductor BLM21A121S	AG
FB3	9DK001-81016	J	Inductor BLM21A121S	AG
FB4	9DK001-81016	J	Inductor BLM21A121S	AG
FB5	9DK001-81016	J	Inductor BLM21A121S	AG
FB6	9DK001-81016	J	Inductor BLM21A121S	AG
FB7	9DK001-81016	J	Inductor BLM21A121S	AG
FB8	9DK001-81016	J	Inductor BLM21A121S	AG
FB9	9DK001-81016	J	Inductor BLM21A121S	AG
FB10	9DK001-81016	J	Inductor BLM21A121S	AG
FB15	9DK001-81016	J	Inductor BLM21A121S	AG
FB16	9DK001-81044	J	Inductor BLM21B201S	AE
FB17	9DK001-81016	J	Inductor BLM21A121S	AG
FB18	9DK001-81043	J	Inductor BLM21B751S	AF
FB19	9DK001-81016	J	Inductor BLM21A121S	AG
FB21	9DK001-81016	J	Inductor BLM21A121S	AG
P101	9DK001-60031	J	Pin Header, 14-pin (TC1)	AM
P105	9DK001-60032	J	Pin Header, 8-pin (FW)	AF
SC102	9DK001-60036	J	Connector, 60-pin (TC2)	AT
SC103	9DK001-60036	J	Connector, 60-pin (TC3)	AT
SC104	9DK001-60037	J	Socket, 4-pin (CN5)	AM
SC105	9DK001-60037	J	Socket, 4-pin (CN6)	AM
SC106	9DK001-60037	J	Socket, 4-pin (CN7)	AM
	9DK001-90024	J	Shield-Top	AX
	9DK001-90025	J	Shield-Bottom	AT
	9DK001-99021	J	Wire Holder	AH

CABINET AND MECHANICAL PARTS

Ref. No.	Part No.	★	Description	Code
1	DBDYT1176CE01	J	Top Cabinet Ass'y (XG-NV21SE)	BR
1	DBDYT1178CE01	J	Top Cabinet Ass'y (XG-NV21SA)	
1	DBDYT1177CE01	J	Top Cabinet Ass'y (XG-NV21SM)	
1-1	*Not Available*	–	Top Cabinet	—
1-2	GNETC0157CESA	J	SP Net	AS
1-3	HiNDP4637CESi	J	Lens Caution Label	AD
1-4	*Not Available*	–	Operation Key Unit	—
1-5	VSP7040P-398A	J	Speaker, x2	AP
1-6	XEPSD30P08000	J	Screw, x12	AA
2	DBDYR1069CE01	J	Rear Cabinet Ass'y (XG-NV21SE)	BM
2	DBDYR1069CE03	J	Rear Cabinet Ass'y (XG-NV21SA)	BM
2	DBDYR1071CE01	J	Rear Cabinet Ass'y (XG-NV21SM)	AY
2-1	*Not Available*	–	Rear Cabinet	—
2-2	CCOVA1743CE01	J	Video Terminal Cover Ass'y (XG-NV21SM)	AH
2-2	CCOVA1743CE03	J	Video Terminal Cover Ass'y (XG-NV21SE and XG-NV21SA)	AK
2-2-1	GCOVA1743CEKA	J	Video Terminal Cover	AF
2-2-2	HiNDP5076CESA	J	Video Terminal Indication Sheet	AE
2-4	HiNDP5073CESA	J	PC Terminal Cover Indication Sheet (XG-NV21SE/M)	AH
2-4	HiNDP5125CESA	J	PC Terminal Cover Indication Sheet (XG-NV21SA)	AH
2-5	LHLDZ2077CEKZ	J	Light Shielding Holder	AD
2-6	LX-HZ3067CESF	J	Screw, x1	AC
2-7	LANGF2134CEFW	J	Angle	AE
3	DBDYU1115CE01	J	Bottom Cabinet Ass'y (XG-NV21SE: For Europe)	BT
3	DBDYU1115CE02	J	Bottom Cabinet Ass'y (XG-NV21SE: For U.K.)	BT
3	DBDYU1115CE04	J	Bottom Cabinet Ass'y (XG-NV21SE: For Australia and New Zealand)	BT
3	DBDYU1115CE05	J	Bottom Cabinet Ass'y (XG-NV21SA)	BT
3	DBDYU1115CE03	J	Bottom Cabinet Ass'y (XG-NV21SE: For Hong Kong)	BQ
3	DBDYU1081CE11	J	Bottom Cabinet Ass'y (XG-NV21SM)	BF
3-1	*Not Available*	–	Bottom Cabinet	—
3-3	HiNDP5456CESA	J	Caution Label (XG-NV21SE/M)	AF
3-3	HiNDP5457CESA	J	Caution Label (XG-NV21SA)	AF
3-4	HiNDP5481CESA	J	Model Label (XG-NV21SE: For Europe)	AF
3-4	HiNDP5482CESA	J	Model Label (XG-NV21SE: For U.K.)	AF
3-4	HiNDP5484CESA	J	Model Label (XG-NV21SE: For Australia and New Zealand)	AF
3-4	HiNDP5486CESA	J	Model Label (XG-NV21SA)	AF
3-4	HiNDP5483CESA	J	Model Label (XG-NV21SE For Hong Kong)	AF
3-4	HiNDP5485CESA	J	Model Label (XG-NV21SM: For Asia)	AF
3-5	HPNC-0429CESA	J	Punching Net	AH
3-6	LHLDZ2074CEKZ	J	Holder-Front, x2	AD
3-7	LHLDZ2075CEKZ	J	Holder-R·L	AD
3-8	LX-NZ3102CEFW	J	Nut (Lamp Cage Cover)	AB
3-9	LX-NZ3144CEFW	J	Nut, x4	AC
3-10	PCAPH1045CEKZ	J	Cap	AD
3-11	CCOVA1736CE01	J	Intake Cover Ass'y	AP
3-11-1	*Not Available*	–	Intake Cover	—
3-11-2	HPNC-0410CESA	J	Intake Cover Punching	AK
3-12	PSPAT0038CEZZ	J	Spacer, x2	AC
3-13	GLEGP1020CEKA	J	Adjuster-Right	AV
3-14	GLEGP3019CEKA	J	Adjuster-Left	AV
3-15	JHNDA1037CESA	J	Carrying Handle	AR
3-16	LANGF9521CEFW	J	Angle-A	AE
3-17	LANGF9522CEFW	J	Angle-B	AG
3-18	LANGQ1324CEFW	J	Fixing, Angle, x2	AE
3-19	LX-NZ3155CEFF	J	Speed Nut, x4	AF
3-20	NSFTH0018CEFW	J	Handle Shaft, x2	AF
3-21	PFILD0079CEZZ	J	Intake Air Filter	AD
3-22	XBPSD26P06000	J	Screw, x2	AA
3-23	XEPSD30P10000	J	Screw, x2	AA
3-24	XEBSD30P14000	J	Screw, x8	AA
3-25	QCNW-4861CEZZ	J	Leaf Switch	AM
3-26	XRESJ30-06000	J	E-Ring, x2	AA
3-27	LHLDZ2084CEKZ	J	Holder-R·R	AD
5	CCOVA1735CE02	J	Lamp Cage Cover Ass'y	AS
5-1	*Not Available*	–	Lamp Cage Cover	—
5-3	LX-BZ3366CESD	J	Screw, x1	AE
5-4	PCOVM1018CEKZ	J	Dust Cover	AF
5-5	XRESJ30-06000	J	E-Ring, x1	AA
6	*Refer to Optics Mechanism Parts*			
7	GCOVA1738CESA	J	R/C Cover	AF
8	GCOVA1740CEKA	J	Projection Lens Cover	AK
10	*Not Available*	–	Serial Number Label	—
⚠11	BQC-XGNV6XE/1	J	Metal-Halide Lamp Unit	CQ
⚠11-1	CLMPF0056CE01	J	Lamp/Mirror Ass'y	CL
11-2	PCASZ1031CEKZ	J	Lamp Case	AU
11-3	XBTSC40P12000	J	Screw, x3	AB
11-4	LHLDZ3054CEFW	J	Handle	AE
11-5	MSPRK0059CEFW	J	Spring	AH
11-6	LX-WZ3102CEFN	J	Washer	AA
11-7	LX-NZ3108CEFN	J	Nut	AA
11-8	PCOVZ1077CEKZ	J	Cover	AG
11-10	TLABZ0626CEZZ	J	Caution Label	AC
11-11	LX-BZ3270CEFN	J	Screw	AA
11-12	PSLDP3061CEFW	J	Shielding Plate	AE
11-13	LX-HZ3106CEFD	J	Screw, x2	AB
11-14	XEPSD30P10000	J	Screw	AA
12	*Refer to Power/Ballast Unit Parts*			
13	*Not Available*	–	PC I/F Unit	—
14	*Not Available*	–	Output Unit	—
15	*Not Available*	–	Output Sub Unit	—
16	*Not Available*	–	Signal Unit	—
17	*Not Available*	–	Signal Sub Unit	—
18	*Not Available*	–	PC Terminal Unit	—
19	*Not Available*	–	Video Board Unit	—
20	*Not Available*	–	Sound Out Unit	—
21	*Not Available*	–	R/C Receiver Unit	—
22	*Not Available*	–	AC SW Unit	—
23	*Not Available*	–	Filter Unit	—
24	LX-HZ3084CESA	J	Screw, x4	AC
25	LX-HZ3085CESC	J	Screw, x10	AC
26	LX-EZ3000CESA	J	Screw, x5	AC
27	XEPSD30P08000	J	Screw, x3	AA
28	LX-HZ3106CEFD	J	Screw, x2	AB
29	XEBSD40P12000	J	Screw, x1	AA
30	XJPSF26P06000	J	Screw, x1	AA
31	XTBSD40P30000	J	Screw, x6	AA
32	XBPSD30P06R00	J	Screw, x19	AB
33	NSFTZ0138CEFW	J	Screw, x3	AD
34	NSFTZ0137CEFW	J	Holder, x3	AD

CABINET AND MECHANICAL PARTS / GEÄUSE UND MECHANISCHE BAUTEILE 壳罩与及机械零件分解图



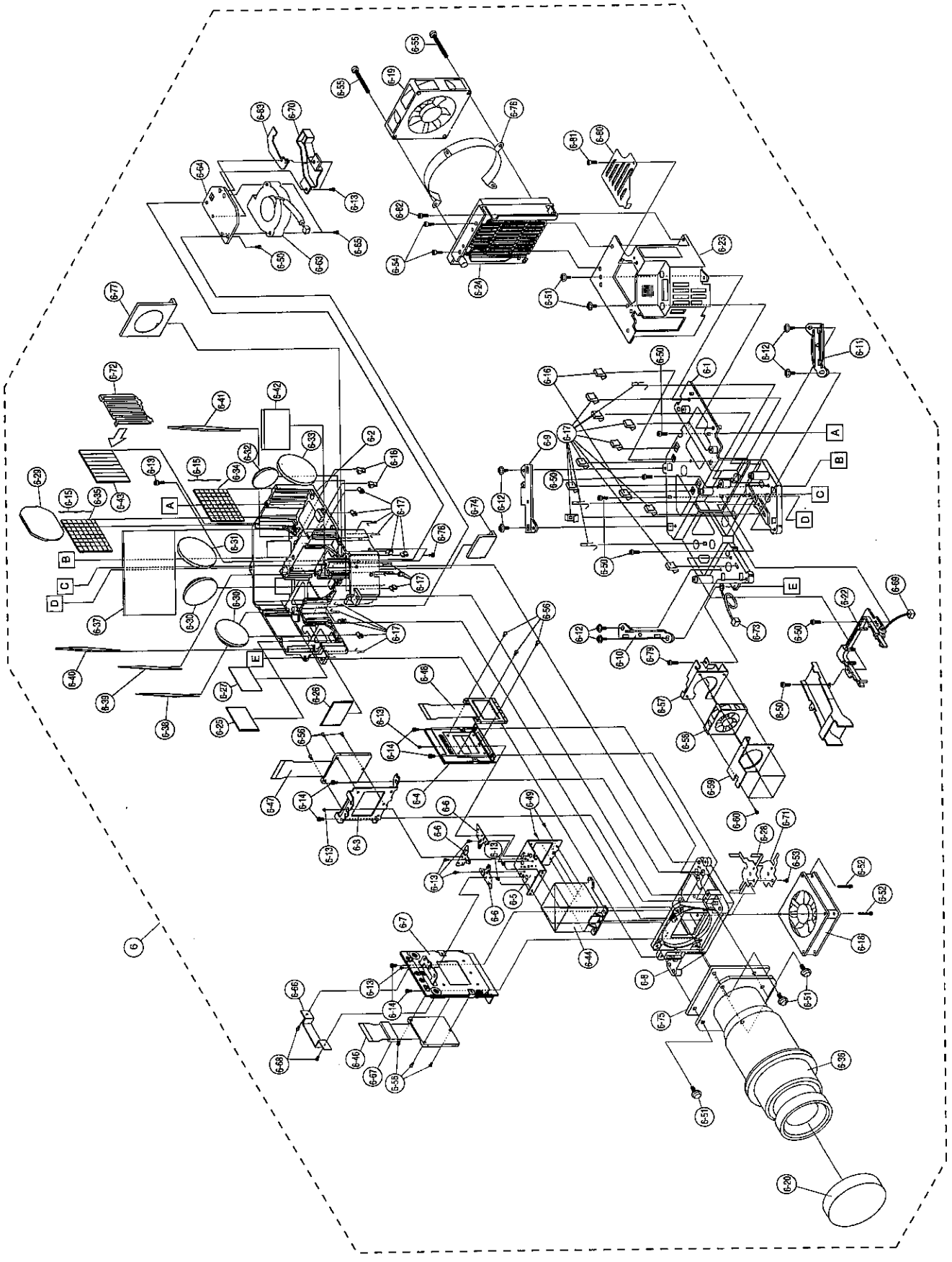
CABINET AND MECHANICAL PARTS (Cotinued)

Ref. No.	Part No.	★	Description	Code
35	NSFTZ0113CEFW	J	Holder, x2	AC
36	XBPSD26P04000	J	Screw, x16	AA
37	NSFTZ0140CEFW	J	Holder, x8	AC
38	9DK001-99021	J	Holder	AH
39	PZETK0055CEKZ	J	Cover	AC
40	PCOVU9032CEZZ	J	Shielding Plate	AF
41	XBPSD30P06JS0	J	Screw, x1	AA
44	LX-BZ3270CEFN	J	Screw, x3	AA
45	—	–	Angle	—
46	XBPSD30P06J00	J	Screw, x2	AA
47	XBSSD30P06000	J	Screw, x2	AA
48	PDUC-0076CEKZ	J	IC Coolimg Duct	AQ
49	PRDAR1543CEFW	J	Heat Sink for Crystal	AE
50	PSPAZ0326CEZZ	J	Silicon Rubber Sheet	AD
51	PRDAR1548CEFW	J	Heat Sink for Crystal	AE
52	CBiM-0015DE03	J	Bimetal Ass'y	AT

OPTICS MECHANISM PARTS

Ref. No.	Part No.	★	Description	Code
6	CCHSK0062CE21	J	Optics Macha. Ass'y	FN
6-1	LCHSK0067CEKZ	J	Optics Mecha. Cover	BB
6-2	LCHSK0064CEKZ	J	Optics Mecha. Base	BB
6-3	LANGG1159CEFW	J	G Adjusting Plate	AK
6-4	CANGG1161CE01	J	B Adjusting Plate	BB
6-5	LANGG1173CEFW	J	Guide Plate-Top	AM
6-6	LANGG1126CEFW	J	Slide Plate x3	AG
6-7	CANGG1163CE01	J	R Adjusting Plate	BB
6-8	LHLDZ9132CEZZ	J	Holder for Prizm	BC
6-9	LHLDZ9134CEKZ	J	M1 Adjust Lever	AG
6-10	LHLDZ9135CEKZ	J	M5 Adjust Lever	AF
6-11	LHLDZ9136CEKZ	J	M6 Adjust Lever	AF
6-12	LX-BZ3405GEFD	J	Screw M3-8 x6	AA
6-13	LX-BZ3370CEFD	J	Screw M2.66-6wsw x11	AB
6-14	LX-BZ3388CEFD	J	Screw M2.6-5 x6	AE
6-15	MSPRP1199CEFW	J	Flyeye Fitting Spring	AD
6-16	MSPRP1197CEFW	J	PBS Fitting Spring x4	AE
6-17	MSPRP1198CEFW	J	Mirror Fitting Spring x28	AD
6-18	NFANR0079CE00	J	Cooling Fan (Intake) x1	AY
6-19	NFANR0089CE00	J	Cooling Fan (Exhaust) x1	BA
6-20	PCAPH1053CESA	J	Lens Cap	AN
6-22	LHLDZ2107CEKZ	J	LCD Cover	AF
6-23	PDUC-0087CEKZ	J	Duct Holder	AT
6-24	PDUC-0094CEKZ	J	Angle for Fan	AV
6-25	PFiLW0222CEZZ	J	Polarizer Input Filter-R	BC
6-26	PFiLW0223CEZZ	J	Polarizer Input Filter-G	BC
6-27	PFiLW0224CEZZ	J	Polarizer Input Filter-B	BC
6-28	PGiDH0013CEFW	J	Flap	AH
6-29	PLNS-0126CEZZ	J	L1	BM
6-30	PLNS-0127CEZZ	J	L2 x2	AZ
6-31	PLNS-0128CEZZ	J	G01	BA
6-32	PLNS-0129CEZZ	J	G02	AW
6-33	PLNS-0130CEZZ	J	G03	BA
6-34	PLNS-0175CEZZ	J	Flyeye Lens (Incoming-Light)	BR
6-35	PLNS-0176CEZZ	J	Flyeye Lens (Outgoing-Light)	BP
6-36	CLNS-0138CE01	J	Projection Lens	CK
6-37	PMiR-0183CEZZ	J	Mirror-1	AP
6-38	PMiR-0184CEZZ	J	Mirror-2	BC
6-39	PMiR-0237CEZZ	J	Mirror-3	BC
6-40	PMiR-0186CEZZ	J	Mirror-4	AN
6-41	PMiR-0187CEZZ	J	Mirror-5	AN
6-42	PMiR-0188CEZZ	J	Mirror-6	AV
6-43	PMiR-0231CEZZ	J	PBS	CC
6-44	PMiR-0230CEZZ	J	Cross Prizm (with Base)	CL
6-46	RLCDP0089CEZZ	J	LCD Module Unit Red	CT
6-47	RLCDP0090CEZZ	J	LCD Module Unit Green	CT
6-48	RLCDP0091CEZZ	J	LCD Module Unit Blue	CT
6-49	XAPSF20P05000	J	Screw M2-5 x2	AA
6-50	XBBSD30P08000	J	Screw M3-8 x11	AA
6-51	XBPSD40P10JS0	J	Screw M4-10 x6	AA
6-52	XBPSD40P25000	J	Screw M4-25 x2	AA
6-53	XBPSD20P06JS0	J	Screw M2-6 x1	AA
6-54	XEBSD40P12000	J	Screw M4-25 x2	AA
6-55	XEPSF40P35000	J	Screw M4-35 x2	AD
6-56	XSSSF20P06000	J	Screw M2-5 x9	AA
6-57	LANGU9033CEFW	J	Fan Plate	AK
6-58	NFANR0084CE00	J	Cooling Fan	AZ
6-59	PZETK0054CEZZ	J	Shield Plate	AF
6-60	XBPSD30P16JS0	J	Screw x4	AA
6-63	NFANS0006CE00	J	Fan	BB
6-64	LANGK0683CEFW	J	Fan Plate	AG
6-65	XBPSD40P20JS0	J	Screw x2	AC
6-66	LANGU9017CEFW	J	Angle for Core	AF
6-67	RCORF0068CEZZ	J	Core	AL
6-68	LX-BZ3395CEFF	J	Screw	AC
6-69	RH-HZ0048CEZZ	J	Thermistor	AN
6-70	PDUC-0093CEKZ	J	PBS XTL Duct	AH
6-71	PGiDH0012CEFW	J	Flap	AF
6-72	PSLDP3059CEFW	J	PBS Aperturs	AE
6-73	RH-HZ0055CEZZ	J	Thermistor	AM
6-74	PSLDW1001CEZZ	J	Shield	AE

OPTICS MECHANISM PARTS / TEILE FÜR OPTIKMECHANISMUS 光学机械装置的零件分解图



Ref. No.	Part No.	★	Description	Code

OPTICS MECHANISM PARTS (Cotinued)

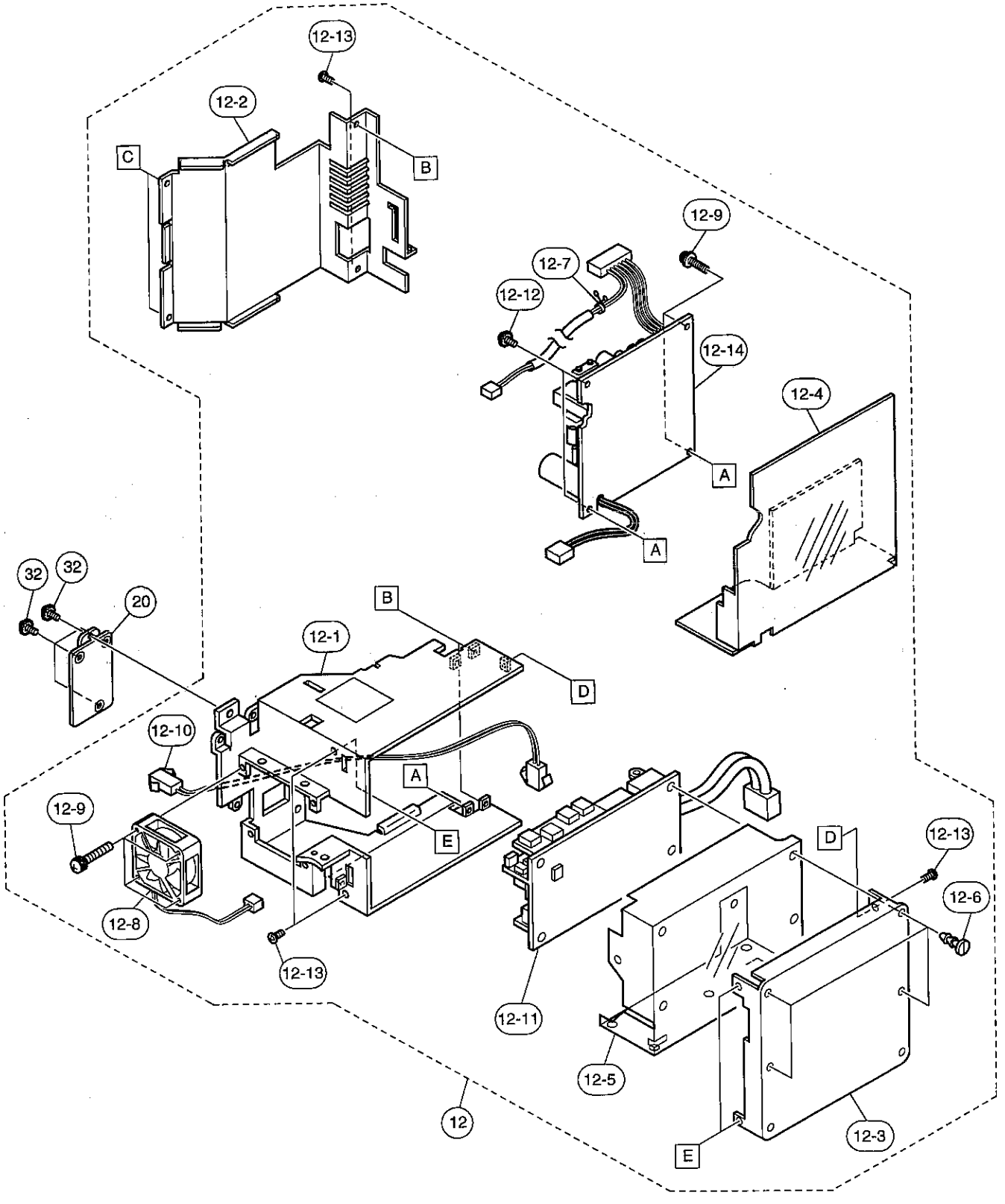
6-75	PSPAZ0325CEFW	J	Lens Spacer	AE
6-76	PCOVN9006CEZZ	J	Fan Cover	AG
6-77	PSLDP3064CEFW	J	G02 Aperturs	AF
6-78	XBPSD26P06000	J	Screw x2	AA
6-79	XBBSD30P10000	J	Screw	AA
6-80	PSLDP3060CEFW	J	Shielding Plate	AF
6-81	XEPSD30P08000	J	Screw x1	AA
6-82	XBPSD40P08000	J	Screw x1	AA
6-83	PCOVN0007CEZZ	J	PBS Duct Cover	AD

Ref. No.	Part No.	★	Description	Code

POWER/BALLAST UNIT PARTS

12	*Not Available*	–	Power/Ballast Unit Ass'y	—
12-1	9FJ0N00010670	J	Power Case	BC
12-2	9FJ0N00010680	J	Cover	AR
12-3	9FJ0N00010690	J	Ballast Case	AN
12-4	9FJ0A11901480	J	Insulating Sheet B	AS
12-5	9FJ0A11901510	J	Insulating Sheet A	AR
12-6	9FJ0G20010390	J	Spacer	AC
12-7	9FJ0i10006820	J	Wire	AX
12-8	9FJ0M41010020	J	Fan	AW
12-9	9FJ0S89000070	J	Screw	AC
12-10	9FJ0i10006780	J	Wire	AL
⚠ 12-11	RDENC0286CEZZ	J	Ballast Unit (The ballast unit is supplied only as an assembly.)	CE
12-12	9FJ0S89000100	J	Screw	AB
12-13	9FJ0S89000020	J	Screw	AB
⚠ 12-14	*Not Available*	–	Power Unit	—

POWER/BALLAST UNIT PARTS /
TEILE FÜR NETZ- / BALLASTEINHEIT
电源/镇流电路装置的零件分解图



Ref. No.	Part No.	★	Description	Code

SUPPLIED ACCESSORIES

	PFILD0080CEZZ	J	Extra Air Filter	AE
⚠	QACCV4002CEZZ	J	AC Cord (XG-NV21SE: For Europe)	AZ
⚠	QACCB5024CEZZ	J	AC Cord (XG-NV21SE: For U.K. and Hong Kong)	BA
⚠	QACCL3022CEZZ	J	AC Cord (XG-NV21SE: For Australia and New Zealand)	AZ
⚠	QACCV4001CEZZ	J	AC Cord (XG-NV21SM)	AX
⚠	QACCZ3030CESA	J	AC Cord (XG-NV21SA)	AZ
	QCNW-4910CEZZ	J	RGB Signal Cable	AY
	QCNW-4620CEZZ	J	Mouse Control Cable	BC
	QCNW-4754CEZZ	J	Mouse Control Cable for IBM PS/2	AX
	QCNW-4755CEZZ	J	Mouse Control Cable for Mac	AX
	QCNW-4870CEZZ	J	Computer Audio Cable	AQ
	CTANZ0711CE01	–	Computer Control Cable	—
	QPLGJ1512CEZZ	J	Macintosh Adaptor	AY
	RRMCG1415CESA	J	Wireless Mouse R/C Unit (XG-NV21SE/SM)	BV
	RRMCG1437CESA	J	Wireless Mouse R/C Unit (XG-NV21SA)	BU
	TINS-6874CEZZ	J	Operation Manual (XG-NV21SE: For Europe)	AZ
	TINS-6876CEZZ	J	Operation Manual (XG-NV21SE: For UK, Australia, New Zealand and Hong Kong)	AR
	TINS-6875CEZZ	J	Operation Manual (XG-NV21SM)	AV
	TINS-6956CEZZ	J	Operation Manual (XG-NV21SA)	

ACCESSORIES (NOT REPLACEMENT ITEM)

TCADZ3093CEZZ	–	Register Card	—
TCAUH3071CEZZ	–	Caution Sheet (XG-NV21SA)	—
	–	Four AA Size Batteries	—

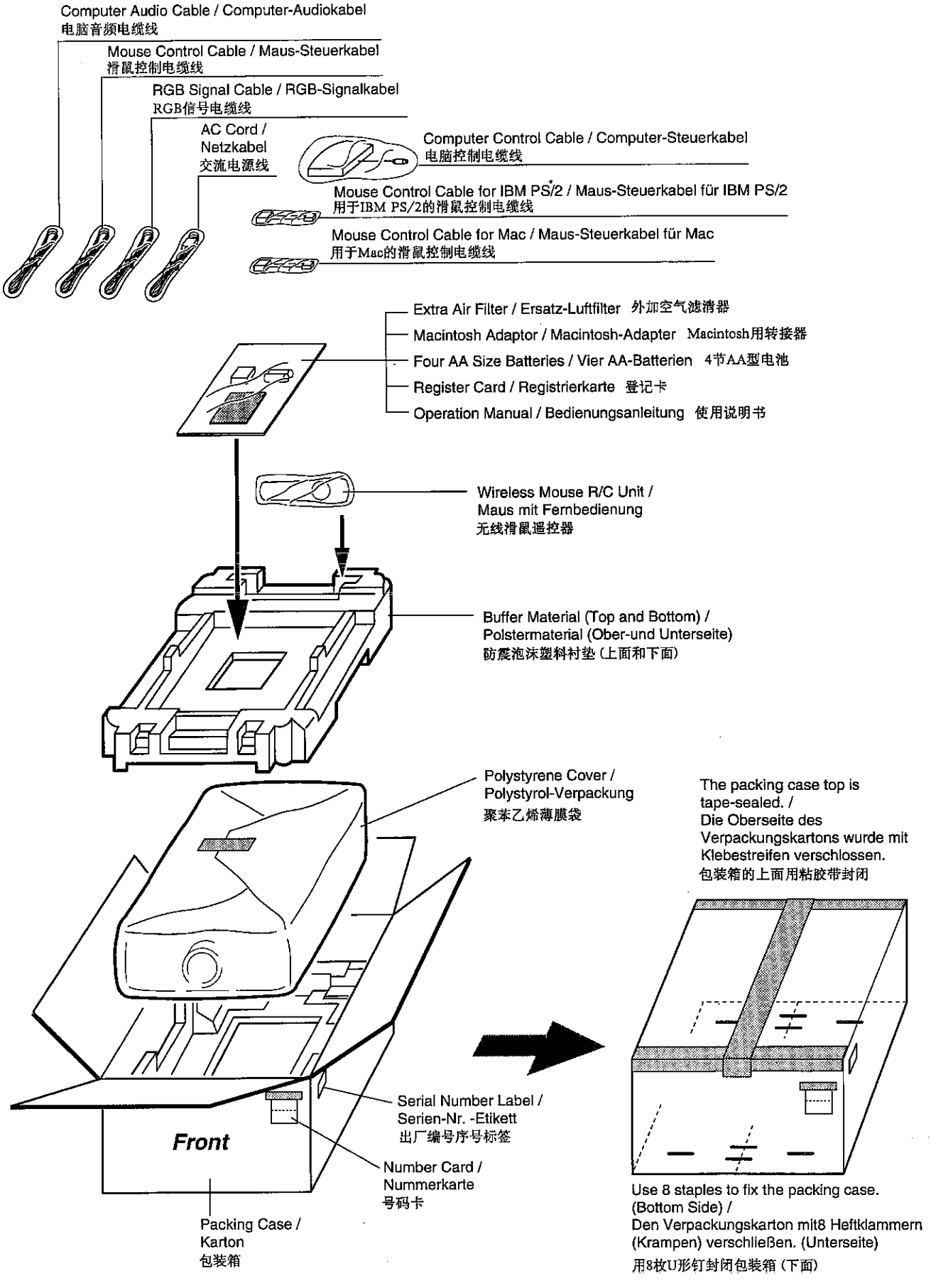
PACKING PARTS
(NOT REPLACEMENT ITEM)

SPAKC5383CEZZ	–	Packing Case (XG-NV21SE)	—
SPAKC5384CEZZ	–	Packing Case (XG-NV21SM)	—
SPAKC5385CEZZ	–	Packing Case (XG-NV21SA)	—
SPAKP0805CEZZ	–	Polystyrene Cover	—
SPAKX2822CEZZ	–	Buffer Material	—
TLABK0001TAZZ	–	Number Card	—

SERVICE JIGS
(Use for servicing)

9DASPN-XGNV1U	J	Spanna, 3.2mm (Off-set Cam Adjustment)	BL
9EQDRIVER-NV1A	J	Off-set Driver (Focus Adjustment)	CA
9EQDRIVER-NV1B	J	Screwdiver, (–) (Focus Adjustment)	BL
9EQLNC-XGNV1U	J	Hexagon Wrench, 2mm (Convergence Adjustment)	BA
QCNW-4984CEZZ	J	Extension Cable 20-pin Signal (TN)-PC Terminal (TN)	BT
QCNW-4985CEZZ	J	Extension Cable 28-pin Signal (CA)-Output (CA), Signal (CB)-Output (CB)	BG
QCNW-4767CEZZ	J	Extension Cable 30-pin Signal (VS)-Video Board (VS)	BT
QCNW-4851CEZZ	J	Extension Cable 60-pin Output (TC2)-PC I/F (TC2), Output (TC3)-PC I/F (TC3)	BX
QCNW-4986CEZZ	J	Extension Cable 24-pin LCD Panel-Output	BN

PACKING OF THE SET / VERPACKEN DES GERÄTS
包装方法



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